

B2-39

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Carr's Notebook

THE  
IMPROVED FOOLSCAP  
SCRIBBLING DIARY  
AND  
NOTE BOOK  
FOR  
1918

CONTAINING

**£1,000 ACCIDENT INSURANCE COUPON**

**With £3 per Week Disablement Allowance.** (*For details, see Coupon.*)



## JANUARY—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 T 1	CIRCUMCISION [Stock Exchange closed]
2 W 2	*Barometer 29-806 in.
3 Th 3	
4 F 4	(Last Quarter 11.50 a.m.)
5 S 5	Dividends due
6 S 6	EPIPHANY 1
7 M 7	S. <i>Distaff</i> Plough Monday
8 T 8	
9 W 9	Christmas Fire Ins. ceases
10 Th 10	
11 F 11	Hilary Law Sittings begin
12 S 12	● New Moon 10.36 p.m.
13 S 13	1ST AFTER EPIPHANY 2 [S. <i>Hilary</i> ]
14 M 14	
15 T 15	*Temp. Day 43-2° Night 33-9°
16 W 16	
17 Th 17	
18 F 18	S. <i>Prisca</i>
19 S 19	● First Quarter 2.38 p.m.
20 S 20	2ND AFTER EPIPHANY 3
21 M 21	S. <i>Agnes</i> [S. <i>Fabian</i> ]
22 T 22	S. <i>Vincent</i>
23 W 23	*Rainfall 1-88 in.
24 Th 24	
25 F 25	CONVERSION OF S. PAUL
26 S 26	Fall of Khartoum, 1885
27 S 27	SEPTUAGESIMA 4
28 M 28	● Full Moon 3.14 a.m.
29 T 29	
30 W 30	
31 Th 31	

## FEBRUARY—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 F 32	[Candlemas]
2 S 33	PURIFICATION OF B.V.M.
3 S 34	SEXAGESIMA. S. <i>Blasius</i> 5
4 M 35	(Last Quarter 7.52 a.m.)
5 T 36	S. <i>Agatha</i>
6 W 37	*Barometer 29-790 in.
7 Th 38	
8 F 39	Half Quarter Day
9 S 40	
10 S 41	QUINQUAGESIMA 6
11 M 42	● New Moon 10.5 a.m.
12 T 43	Shrove Tuesday
13 W 44	Ash Wednesday
14 Th 45	S. <i>Valentine</i>
15 F 46	Kimberley relieved 1900
16 S 47	*Temp. Day 45-4° Night 34-4°
17 S 48	1ST IN LENT. Ember Wk. 7
18 M 49	● First Quarter 0.57 a.m.
19 T 50	
20 W 51	Ember Day
21 Th 52	
22 F 53	Ember Day
23 S 54	Ember Day
24 S 55	2ND IN LENT. S. <i>Matthias</i> 8
25 M 56	● Full Moon 9.35 p.m.
26 T 57	*Rainfall 1-54 in.
27 W 58	
28 Th 59	

## MARCH—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 F 60	S. <i>David</i> . Fly Fishing begins
2 S 61	S. <i>Chad</i>
3 S 62	3RD IN LENT 9
4 M 63	*Barometer 29-786 in.
5 T 64	
6 W 65	(Last Quarter 0.44 a.m.)
7 Th 66	S. <i>Perpetua</i>
8 F 67	
9 S 68	
10 S 69	4TH IN LENT 10
11 M 70	● New Moon 7.52 p.m.
12 T 71	S. <i>Gregory</i>
13 W 72	Duke of Connaught married
14 Th 73	[1879]
15 F 74	*Temp. Day 49-7° Night 35-1°
16 S 75	
17 S 76	PASSION SUNDAY 11
18 M 77	S. <i>Edward</i> [S. <i>Patrick</i> ]
19 T 78	● First Quarter 1.30 p.m.
20 W 79	
21 Th 80	S. <i>Benedict</i> . Vernal Equinox
22 F 81	
23 S 82	*Rainfall 1-63 in.
24 S 83	PALM SUNDAY 12
25 M 84	ANNUN. B.V.M. Lady Day
26 T 85	● Full Moon 3.33 p.m.
27 W 86	Hilary Law Sittings end
28 Th 87	Maundy Thursday
29 F 88	GOOD FRIDAY.
30 S 89	Easter Eve
31 S 90	EASTER DAY 13

## APRIL—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 M 91	Easter Monday. Bank Hol.
2 T 92	Easter Tuesday
3 W 93	S. <i>Richard</i>
4 Th 94	(Last Quarter 1.33 p.m.)
5 F 95	Dividends due
6 S 96	*Barometer 29-750 in.
7 S 97	Low SUNDAY 14
8 M 98	[Old Lady Day]
9 T 99	Lady Day Fire Insur. ceases
10 W 100	[Easter Law Sittings begin]
11 Th 101	● New Moon 4.34 a.m.
12 F 102	
13 S 103	
14 S 104	2ND AFTER EASTER 15
15 M 105	*Temp. Day 57-1° Night 38-9°
	Interest payable on £4% War Loan, 1929-1942
16 T 106	
17 W 107	
18 Th 108	● First Quarter 4.8 a.m.
19 F 109	Primrose Day (1881).
20 S 110	[S. <i>Alphege</i> ]
21 S 111	3RD AFTER EASTER 16
22 M 112	
23 T 113	S. <i>George</i>
24 W 114	
25 Th 115	S. <i>Mark</i>
26 F 116	● Full Moon 8.5 a.m.
27 S 117	
28 S 118	4TH AFTER EASTER 17
29 M 119	*Rainfall 1-57 in.
30 T 120	

## MAY—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 W 121	SS. <i>Philp and James</i>
2 Th 122	
3 F 123	(Last Quarter 10.26 p.m.)
4 S 124	*Barometer 29-792 in.
5 S 125	ROGATION SUNDAY 18
	[S. <i>John Evangelist</i> ]
6 M 126	Rogation Day. Accession
7 T 127	Rogation Day [1910]
8 W 128	Rogation Day
9 Th 129	ASCENSION DAY. Half Qtr. D.
10 F 130	● New Moon 1.1 p.m.
11 S 131	
12 S 132	SUNDAY AFT. ASCENSION 19
13 M 133	*Temp. Day 64-1° Night 43-8°
14 T 134	
15 W 135	Scotch Quarter Day
16 Th 136	● First Quarter 8.14 p.m.
17 F 137	Easter Law Sittings end
18 S 138	[S. <i>Dunstan</i> ]
19 S 139	WHITSUN DAY. Emb. Wk. 20
20 M 140	Whit Monday. Bank Hol.
21 T 141	Whit Tuesday
22 W 142	Ember Day
23 Th 143	*Rainfall 1-91 in.
24 F 144	Empire Day. Ember Day
	● Full Moon 10.32 p.m.
25 S 145	Ember Day
26 S 146	TRINITY SUNDAY 21
	[Queen born 1867]
27 M 147	Ven. <i>Bede</i>
28 T 148	Trinity Law Sittings begin
29 W 149	
30 Th 150	Corpus Christi
31 F 151	

## JUNE—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 S 152	S. <i>Nicomede</i> . Int. payable on
	£5% War Loan, 1929-1947
2 S 153	(Last Quarter 4.20 a.m.)
3 M 154	1ST AFTER TRINITY 22
4 T 155	King born 1865
5 W 156	S. <i>Boniface</i>
6 Th 157	*Barometer 29-814 in.
7 F 158	
8 S 159	● New Moon 10.3 p.m.
9 S 160	2ND AFTER TRINITY 23
10 M 161	Ramadan begins
11 T 162	S. <i>Barnabas</i>
12 W 163	
13 Th 164	*Temp. Day 71-1° Night 49-8°
14 F 165	
15 S 166	● First Quarter 1.12 p.m.
16 S 167	3RD AFTER TRINITY 24
17 M 168	
18 T 169	Waterloo 1815
19 W 170	
20 Th 171	Tr. of King Edward
21 F 172	
22 S 173	Longest Day
23 S 174	4TH AFTER TRINITY 25
	[Prince of Wales born 1894]
24 M 175	S. <i>John Baptist</i> . Midsummer
	Day. ● Full Moon 10.38 a.m.
25 T 176	
26 W 177	
27 Th 178	*Rainfall 2-03 in.
28 F 179	
29 S 180	S. <i>Peter</i>
30 S 181	5TH AFTER TRINITY 26

## JULY—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 M 182	(Last Quarter 3.43 a.m.)
2 T 183	
3 W 184	*Barometer 29-801 in.
4 Th 185	Tr. of S. <i>Martin</i>
5 F 186	Dividends due
6 S 187	
7 S 188	6TH AFTER TRINITY 27
8 M 189	● New Moon 8.22 a.m.
9 T 190	Midsummer Fire Ins. ceases
10 W 191	
11 Th 192	
12 F 193	*Temp. Day 73-8° Night 53-2°
13 S 194	
14 S 195	7TH AFTER TRINITY 28
15 M 196	S. <i>Swifthin</i>
16 T 197	● First Quarter 6.25 a.m.
17 W 198	
18 Th 199	
19 F 200	
20 S 201	S. <i>Margaret</i>
21 S 202	8TH AFTER TRINITY 29
22 M 203	S. <i>Mary Magdalene</i>
23 T 204	● Full Moon 8.35 p.m.
24 W 205	Gibraltar taken 1704
25 Th 206	S. <i>James</i>
26 F 207	S. <i>Anne</i>
27 S 208	*Rainfall 2-31 in.
28 S 209	9TH AFTER TRINITY 30
29 M 210	
30 T 211	(Last Quarter 1.14 p.m.)
31 W 212	Trinity Law Sittings end.
	Annual and Nov. to July
	Game Certificates and
	Gun Licences expire

## AUGUST—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 Th 213	Lanmas Day
2 F 214	*Barometer 29-785 in.
3 S 215	[War dec. on Germany 1914]
4 S 216	10TH AFTER TRINITY 31
5 M 217	Bank Holiday
	● New Moon 8.30 p.m.
6 T 218	Transfiguration
7 W 219	Name of Jesus
8 Th 220	
9 F 221	
10 S 222	S. <i>Lawrence</i> . [Hf. Quar. Day]
11 S 223	11TH AFTER TRINITY 32
12 M 224	Grouse Shooting begins
13 T 225	
14 W 226	● First Quarter 11.16 p.m.
15 Th 227	
16 F 228	
17 S 229	*Temp. Day 72-7° Night 53-1°
18 S 230	12TH AFTER TRINITY 33
19 M 231	
20 T 232	Black Game Shooting begins
21 W 233	
22 Th 234	● Full Moon 5.2 a.m.
23 F 235	[Massacre 1572]
24 S 236	St. BARTHOLOMEW
25 S 237	13TH AFTER TRINITY 34
26 M 238	*Rainfall 2-35 in.
27 T 239	[Last Quarter 7.27 p.m.]
28 W 240	S. <i>Augustin</i>
29 Th 241	Beheading of S. <i>John Baptist</i>
30 F 242	
31 S 243	Relief of Candahar 1880

## SEPTEMBER—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 S 244	14TH AFTER TRINITY. 35
	[S. <i>Giles</i> ]
2 M 245	Partridge Shooting begins
3 T 246	Capitulation of Sedan 1870
4 W 247	
5 Th 248	● New Moon 10.44 a.m.
6 F 249	
7 S 250	S. <i>Evaristus</i> .
	[Jewish year 5679 begins]
8 S 251	15TH AFTER TRINITY 36
9 M 252	
10 T 253	*Barometer 29-825 in.
11 W 254	
12 Th 255	● First Quarter 3.2 p.m.
13 F 256	Holy Cross Day.
14 S 257	16TH AFTER TRINITY 37
15 S 258	[Ember Week]
16 M 259	*Temp. Day 67-2° Night 49-0°
17 T 260	Ember Day
18 W 261	● Full Moon 1.1 p.m.
19 Th 262	
20 F 263	Ember Day
21 S 264	S. <i>Matthew</i> . Ember Day
22 S 265	17TH AFTER TRINITY 38
23 M 266	Autumnal Equinox
24 T 267	
25 W 268	*Rainfall 2-04 in.
26 Th 269	S. <i>Cyprian</i>
27 F 270	(Last Quarter 4.39 a.m.)
28 S 271	[Michaelmas Day]
29 S 272	18TH AFTER TRINITY. 39
	[S. <i>Michael and All Angels</i> ]
30 M 273	S. <i>Jerom</i>

## OCTOBER—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 T 274	Pheasant Shooting begins
2 W 275	[published]
3 Th 276	Charles Letts's Diaries, 1919,
4 F 277	● New Moon 3.5 a.m.
5 S 278	Dividends due
6 S 279	19TH AFTER TRINITY 40
	[S. <i>Faith</i> ]
7 M 280	Mohammedan Year 1337
8 T 281	[begins]
9 W 282	S. <i>Denys</i>
10 Th 283	*Barometer 29-724 in.
11 F 284	
12 S 285	Mich. Law Sittings begin
13 S 286	20TH AFTER TRINITY 41
	● First Quarter 5.0 a.m.
14 M 287	Mich. Fire Insurance ceases
15 T 288	Interest payable on £4% War Loan 1929-1942
16 W 289	*Temp. Day 57-7° Night 43-5°
17 Th 290	S. <i>Elkeldreda</i>
18 F 291	S. <i>Luke</i>
19 S 292	● Full Moon 9.35 p.m.
20 S 293	21ST AFTER TRINITY 42
21 M 294	Trafalgar 1805
22 T 295	
23 W 296	*Rainfall 2-75 in.
24 Th 297	
25 F 298	S. <i>Crispin</i>
26 S 299	(Last Quarter 5.35 p.m.)
27 S 300	22ND AFTER TRINITY 43
28 M 301	SS. <i>Simon and Jude</i>
29 T 302	
30 W 303	[ates expire]
31 Th 304	Aug. to Oct. Game Certifi-

## NOVEMBER—1918.

Day of the	Sundays, Festivals,
Mth.Wk. Yr.	Astronomical Notes, &c.
1 F 305	All Saints
2 S 306	All Souls
3 S 307	23RD AFTER TRINITY 44
4 M 308	● New Moon 9.2 p.m.
5 T 309	Inkerman 1854
6 W 310	*Barometer 29-754 in.
7 Th 311	
8 F 312	
9 S 313	
10 S 314	24TH AFTER TRINITY 45
	● First Quarter 4.46 p.m.
11 M 315	Half-Quarter Day
12 T 316	[Martinmas]
13 W 317	S. <i>Britius</i>
14 Th 318	*Temp. Day 48-9° Night 37-8°
15 F 319	S. <i>Machutus</i>
16 S 320	Suez Canal opened 1869
17 S 321	25TH AFTER TRINITY 46
18 M 322	● Full Moon 7.33 a.m.
19 T 323	
20 W 324	
21 Th 325	
22 F 326	*Rainfall 2-26 in.
23 S 327	
24 S 328	26TH AFTER TRIN. (last) 47
25 M 329	(Last Quarter 10.25 a.m.)
26 T 330	
27 W 331	
28 Th 332	
29 F 333	
30 S 334	S. <i>Andrew</i>

## DECEMBER—1918.

Day of the			Sundays, Festivals,
Mth. Wk. Yr.			Astronomical Notes, &c.
1	S	335	ADVENT SUNDAY 48 [Q. Alexandra born 1844
2	M	336	Interest payable on £5% War Loan 1929-1947 ● New Moon 3.19 p.m.
3	T	337	
4	W	338	
5	Th	339	*Barometer 29-761 in.
6	F	340	
7	S	341	
8	S	342	2ND IN ADVENT 49
9	M	343	
10	T	344	Grouse Shooting ends
11	W	345	▷ First Quarter 2.31 a.m.
12	Th	346	
13	F	347	*Temp. Day 44-7° Night 35-4°
14	S	348	
15	S	349	3RD IN ADVENT 50
16	M	350	[Ember Week
17	T	351	○ Full Moon 7.18 p.m.
18	W	352	Ember Day
19	Th	353	
20	F	354	Ember Day
21	S	355	S. <i>Thomas</i> . Ember Day
			[Mich. Law Sittings end
22	S	356	4TH IN ADVENT. 51
23	M	357	[Shortest day
24	T	358	▷ (Last Quarter 6.31 a.m.
25	W	359	CHRISTMAS DAY
26	Th	360	S. <i>Stephen</i> . Bank Holiday
27	F	361	S. <i>John</i>
28	S	362	Holy Innocents
29	S	363	1ST AFTER CHRISTMAS 52
30	M	364	
31	T	365	*Rainfall 2.04 in.



## SELECTED STAMP DUTIES.

Inland Revenue Office, Somerset House; House 10 to 4 (Sats., 1). Stamp Office, 10 to 4 (Sats., 2).

AFFIDAVIT or STATUTORY Declaration .. £ s. d. 0 2 6

AGREEMENT or MEMO. of AGREEMENT, under hand only and not otherwise charged .. 0 0 6

A sixpenny adhesive stamp may be used, but must be cancelled by writing date, &c., across. EXEMPTIONS.—Agreements under £5, or for hire of servants, or sale of goods, or between master and crew of any ship for wages on any voyage coast-wise from port to port of the United Kingdom, do not require stamping.

AGREEMENT for any term less than year of fur, dwelling ho. or part, where rent for term exceeds £25 0 5 0

ALLOTMENT, Letter of Under £5 .. 1d £5 and over 0 0 6

APPRAISEMENT or VALUATION of any property where amount does not exceed £5 .. 0s. 3d. £30 .. 1s. 6d. £100 .. 5s. 10 .. 0s. 6d. 40 .. 2s. 0d. 200 .. 10s. 20 .. 1s. 0d. 50 .. 2s. 6d. 500 .. 15s.

Exceeding £500 .. £1.

APPRENTICESHIP INDENTURE .. 0 2 6

ARMS, GRANT OF .. 10 0 0

ARTICLES OF CLERKSHIP, to Attorney or Solicitor, Engl. or Irel., £80; Scotch Super. Courts .. 60 0 0

AWARDS .. 0 10 0

BANKERS' CHEQUES .. 0 0 1

BILL OF EXCHANGE, payable on demand or at sight, or within 3 days after .. 0 0 1

After date or sight of any other kinds, or Promissory Note, not exceeding—

£5, 1d. £50, 0s. 6d. Every additional 10, 2d. 75, 0s. 9d. £100 .. 1s. 0d. 25, 3d. 100, 1s. 0d. On demand, 0s. 1d.

BILL OF EXCHANGE drawn and payable out of the United Kingdom when negotiated here. Exceeding £50 but not exceeding £100, 6d.; exceeding £100, 6d. for every £100 or part.

Foreign Bills and Notes chargeable with these *ad val.* duties require special adhesive stamps, called "Foreign Bill Stamps." Bills of Exchange due on a Bank Holiday are payable following day; those due on Good Friday, Christmas Day or any Sunday, on previous day.

BILL OF LADING .. 0 0 6

BOND, COVENANT or INSTRUMENT—

Being principal security for any sum for a definite period. See Mortgage. For indefinite period—

For every £5 or part .. 0 2 6

For superannuation annuity—

For every £5 or part .. 0 0 6

Bonds, by Acts of Parliament or by Customs or Inland Revenue, where penalty does not exceed £150, *ad val.* duty as in Mortgage.

In any other case .. 0 5 0

On obtaining letters of administration (not exceeding £100 exempt) .. 0 5 0

CHARTERPARTY .. 0 0 6

COMMISSION of LUNACY .. 0 5 0

COMPANIES—Registered Capital & any increase, for every £100 .. 0 5 0

CONTRACT NOTES—

Where the value of the stock or marketable security is—

£5, and does not exceed £100 .. .. 6d.		exceeds .. .. 6d.	
exceeds	not exceeding	exceeds	not exceeding
£100 .. ..	£500, 1s.	£7,500 .. ..	£10,000 10s.
£500 .. ..	£1,000, 2s.	£10,000 .. ..	£12,500 12s.
£1,000 .. ..	£1,500 3s.	£12,500 .. ..	£15,000 14s.
£1,500 .. ..	£2,500 4s.	£15,000 .. ..	£17,500 16s.
£2,500 .. ..	£5,000 6s.	£17,500 .. ..	£20,000 18s.
£5,000 .. ..	£7,500 8s.	£20,000 .. ..	£25,000 20s.

CONVEYANCE or TRANSFER—

Bank of England Stock .. 0 7 9

Canadian Stock and Colonial Stock, per £100 .. 0 2 6

CONVEYANCE or TRANSFER on SALE of any property except as above—

Where amount of consideration does not exceed £5, 1s.; £10, 2s.; £15, 3s.; £20, 4s.; £25, 5s.; £50, 10s.; for every additional £25 up to £300, 5s.; and for every additional £50 above £300, 10s.

The above scale of duty was imposed by Section 73 of the Finance (1909-10) Act, 1910, but in all cases of conveyance or transfer on sale of any property (other than stock or marketable security) or voluntary dispositions of any property the rate of duty is one-half the above, provided the instrument contains a certificate in the form set out in the section above mentioned.

The Act contains exceptions for marriage settlements, gifts of property for preservation of open spaces, and for conveyances to appoint new trustees or on retirement of a trustee (Section 74).

## STAMP DUTIES—contd.

CONVEYANCE or TRANSFER of STOCKS or MARKETABLE SECURITIES on sale, or by way of gift—

Where the amount of consideration does not exceed £5, 6d.; £10, 1s.; £15, 1s. 6d.; £20, 2s.; £25, 2s. 6d.; and for every additional £25, 2s. 6d., up to £300; if exceeding £300, then for every £50, 5s.

For nominal consideration, or any not otherwise charged .. 0 10 0

Transfer of Shares on Cost Book System .. 0 0 6

DECLARATION of TRUST .. 0 10 0

DEED of any kind whatsoever not otherwise charged .. 0 10 0

DUPLICATE of any instrument—Same duty as original, but not to exceed .. 0 5 0

ESTATE DUTIES—Payable upon the principal value of all property—

Where the principal value of the Estate exceeds		£11 per cent.	
£100 .. ..	£1 per cent.	£100,000 .. ..	£11 per cent.
500 .. ..	2 .. ..	200,000 .. ..	12 .. ..
1,000 .. ..	3 .. ..	250,000 .. ..	13 .. ..
5,000 .. ..	4 .. ..	300,000 .. ..	14 .. ..
10,000 .. ..	5 .. ..	350,000 .. ..	15 .. ..
20,000 .. ..	6 .. ..	400,000 .. ..	16 .. ..
40,000 .. ..	7 .. ..	500,000 .. ..	17 .. ..
60,000 .. ..	8 .. ..	600,000 .. ..	18 .. ..
80,000 .. ..	9 .. ..	800,000 .. ..	19 .. ..
100,000 .. ..	10 .. ..	1,000,000 .. ..	20 .. ..

Settlement Estate Duty is abolished, and relief in respect of settled property is given under the Finance Act, 1894.

Relief is also given in respect of quick succession. Where the second death occurs within one year of the first death by 50 per cent.

two years		three		four		five	
£	s. d.	£	s. d.	£	s. d.	£	s. d.
10	0 0	10	0 0	10	0 0	10	0 0
15	0 0	15	0 0	15	0 0	15	0 0
20	0 0	20	0 0	20	0 0	20	0 0
25	0 0	25	0 0	25	0 0	25	0 0
30	0 0	30	0 0	30	0 0	30	0 0
35	0 0	35	0 0	35	0 0	35	0 0
40	0 0	40	0 0	40	0 0	40	0 0
45	0 0	45	0 0	45	0 0	45	0 0
50	0 0	50	0 0	50	0 0	50	0 0
55	0 0	55	0 0	55	0 0	55	0 0
60	0 0	60	0 0	60	0 0	60	0 0
65	0 0	65	0 0	65	0 0	65	0 0
70	0 0	70	0 0	70	0 0	70	0 0
75	0 0	75	0 0	75	0 0	75	0 0
80	0 0	80	0 0	80	0 0	80	0 0
85	0 0	85	0 0	85	0 0	85	0 0
90	0 0	90	0 0	90	0 0	90	0 0
95	0 0	95	0 0	95	0 0	95	0 0
100	0 0	100	0 0	100	0 0	100	0 0

GAMEKEEPER'S, Appointment .. 0 10 0

HIRE PURCHASE AGREEMENTS—

Under hand, value £5 and above 0 0 6

Under seal, .. 0 10 0

INCREMENT VALUE—

Transfer on sale of fee simple of the land or any interest in land, or grant of any lease. For every full £5 of that value 1 0 0

LEASES—

Not exceeding £5 per annum	Not ex- 35 years or term indef.		Not ex- ceeding 100 years.		Ex- ceeding 100 years.	
	£	s. d.	£	s. d.	£	s. d.
10	0 0	0 0	0 0	0 0	0 12 0	0
15	0 0	0 0	0 0	0 0	1 4 0	0
20	0 0	0 0	0 0	0 0	1 16 0	0
25	0 0	0 0	0 0	0 0	2 8 0	0
30	0 0	0 0	0 0	0 0	3 0 0	0
35	0 0	0 0	0 0	0 0	3 12 0	0
40	0 0	0 0	0 0	0 0	4 0 0	0
45	0 0	0 0	0 0	0 0	4 12 0	0
50	0 0	0 0	0 0	0 0	5 0 0	0
55	0 0	0 0	0 0	0 0	5 12 0	0
60	0 0	0 0	0 0	0 0	6 0 0	0
65	0 0	0 0	0 0	0 0	6 12 0	0
70	0 0	0 0	0 0	0 0	7 0 0	0
75	0 0	0 0	0 0	0 0	7 12 0	0
80	0 0	0 0	0 0	0 0	8 0 0	0
85	0 0	0 0	0 0	0 0	8 12 0	0
90	0 0	0 0	0 0	0 0	9 0 0	0
95	0 0	0 0	0 0	0 0	9 12 0	0
100	0 0	0 0	0 0	0 0	10 0 0	0

Exceeding £100, for every fractional part of £50 .. 0 10 0 .. 3 0 0 .. 6 0 0

Of any kind not otherwise described .. 0 0 0

By Section 15 of the Revenue Act, 1911, the increased stamp duty imposed by Section 75 of the Finance (1909-10) Act, 1910, is not to apply to cases where the consideration, or any part of the consideration, consists of money, stock or security (other than rent) the amount or value of which does not exceed £500, provided the instrument contains a certificate (similar to that under the head "Conveyance") showing that the consideration, other than rent, does not exceed £500.

Section 75 of the principal Act (*i.e.* the Stamp Act, 1891) does not apply to the duty chargeable in respect of the consideration or part thereof, which consists of money, stock, or security, other than rent, but that the duty should be charged in respect thereof as if that Act had not been passed.

Section 15 of the Revenue Act, 1911, however, does not apply to any case where part of the consideration for any lease or tack consisted of rent exceeding £20 a year.

LOAN CAPITAL, every £110 or part 0 2 6

MARRIAGE LICENCE .. 2 0 0

Do. do. Special, about 30 0 0

MARKETABLE SECURITY—

(1) (a) Being a Colonial Gov. Security .. Same duty as upon a Mortgage.

(b) Being a security not transferable by delivery .. Same duty as upon a Mortgage.

(2) Transfer, Assignment, Disposition or Assignment of such security—

(a) Upon sale. See Conveyance, etc.

(b) Upon Mortgage. See Mortgage, etc.

In any other case (where not within the *ad val.* charge) .. 0 10 0

(3) Marketable Security (except Col. Gov. Security), transferable by delivery, bearing date, or signed, before August 6, 1885. For every £10 (or fractional part) .. 0 2 0

(4) Marketable Security (except Col. Gov. Security) as above, given in substitution for a like security, duly stamped. For every £20 (or fract. part) 0 1 0

## STAMP DUTIES—contd.

MARKETABLE SECURITY— £ s. d.

(5) Foreign or Colonial and other Securities transferable by delivery which (after August 1, 1899) are assigned, transferred, or in any manner negotiated in the United Kingdom. For every £10 (or fractional part) .. 0 2 0

MINERAL RIGHTS—

In respect of capital value of minerals, for every 20s. .. 0 1 0

Excess Duty.—A duty of 60% is now levied on the amount payable to any person as rent in respect of minerals subject to a mining lease after 4th August, 1914.—See Finance Act, 1916, sec. 46.

MORTGAGE BOND, &c.—

Principal not exc. £10 .. .. s. d.		Principal not exc. £200 .. .. s. d.	
Do. 25 .. ..	0 8	Do. £250 .. ..	5 0
Do. 50 .. ..	1 3	Do. £300 .. ..	7 6
Do. 100 .. ..	2 6	Exc. £300, for every £100 .. ..	2 6
Do. 150 .. ..	3 9		

PASSPORT .. 0 0 6

POLICY OF INSURANCE—

Life, not exc. £10, 1d.; £25 .. 0 0 3

Do. £500, for every £50 .. 0 0 6

Do. £1,000, for every £100 .. 0 1 0

Exceeding £1,000, for every £1,000 or part .. 0 10 0

Accidental .. 0 0 1

Marine, Voyage—for every £100 0 0 1

Marine (Time)—for every £100

not exceeding 6 months .. 0 0 3

" " 12 .. 0 0 6

Containing continuation clause, additional duty of .. 0 0 6

When premium does not exceed

2/6 per cent. of sum insured 0 0 1

By Section 18 of the Finance Act, 1912, provision is made for stamping of policies of sea insurance which are subject to a contingent increase of premium.

POWER OF ATTORNEY—

For appointing proxy at any single meeting, or adjournment 0 0 1

For receiving wages or prize money .. 0 1 0

Sale, transfer or receipt of Gov. Stock, not exceeding £100 .. 0 2 6

Receipt of divs. or int. of any Stock, if for one payment only 0 1 0

Any other kind .. 0 10 0

PROCURATION, Deed of .. 0 10 0

PROTEST, where duty on bill does not exceed 1s., same duty as the bill. In any other case .. 0 1 0

RECEIPT, for £2 or upwards .. 0 0 1

RENUNCIATION, Letter of—

Less than £5, 1d. £5 and upwards, 6d.

REVOCATION of any trust or property, not being a will .. 0 10 0

REVERSION DUTY—

On determination of any lease of land, duty is chargeable on the value of the benefit accruing to the Lessor.

For every full £10 of that value 1 0 0

Certain exemptions and allowances are made under Section 14 of the Finance (1909-10) Act, 1910.

SCRIP CERTIFICATE, Scrip or other document, of any share (or fractional part of a share) .. 0 0 1

SETTLEMENT, for every £100, or part of £100, stock or security 0 5 0

TRANSFER of Marketable Securities not transferable on delivery. Same duty as on Mortgage Bonds.

UNDEVELOPED LAND—

Duty is chargeable in respect of site value of undeveloped land.

For every 20/- of such site value 0 0 0½

Certain exemptions and allowances are made under Section 17, and Section 18 exempts Small Holdings, total value not exceeding £500.—See Finance (1909-10) Act, 1910.

VOTING PAPER or Proxy .. 0 0 1

## CUSTOMS DUTIES.

BEER, Mum, Spruce or Black Beer and Berlin White Beer—

Of a spec. grav. not ex. 1,215

deg. .. per barrel of 36 gal. 5 2 0

Exceeding 1,215 deg. .. 5 19 6

Of other sorts, spec. grav. 1,055

deg. .. per barrel of 36 gal. 1 5 6

BLACKING, containing sugar, cwt. 0 3 1½



CUSTOMS DUTIES— <i>contd.</i>		£	s.	d.
CHLORAL HYDRATE ..	lb.	0	1	9
CHLOROFORM ..	"	0	4	4
CHUTNEY ..	cwt.	0	6	4½
CIDER or PERRY ..	gal.	0	0	4
CIGARETTES ..	lb.	0	8	6
CIGARS ..	"	0	10	6
† CINEMATOGRAPH FILMS—				
Blank .. per linear foot		0	0	0½
Positive ..	"	0	0	1
Negative ..	"	0	0	5
† COCOA and COCOA BUTTER ..	lb.	0	0	4½
† COCOA, husks and shells ..	cwt.	0	6	0
COCOANUT, sugared ..	"	0	6	4½
COFFEE, raw ..	"	2	2	0
" kiln-dried, roasted ..	lb.	0	0	6
" and Chicory mixed, roasted ..	lb.	0	0	6
" substitutes, excise duty, every ..	¼-lb.	0	0	1½
COLLODION ..	gal.	1	14	11
CONFECTIONERY—				
Hard, such as Sugared Almonds ..	cwt.	0	14	0
Do., if Sugar duty does not exceed 10s. 1½d. the cwt.	cwt.	0	10	1½
Soft, A.B. Gums, if combined quantity of sugar and glucose does not exceed the rate of 6s. 4½d. the cwt.	cwt.	0	6	4½
Other A.B. Gums ..	"	0	10	1½
Confectionery, Fig ..	"	0	10	6
Do. made from Sugar only ..	"	0	14	0
CURRENTS ..	"	0	2	0
ETHER, acetic ..	lb.	0	2	7
" butyric ..	gal.	1	1	10
" sulphuric ..	"	1	16	6
ETHYL, Iodide of ..	"	0	19	0
" Bromide ..	lb.	0	1	5
" Chloride ..	gal.	1	1	10
FRUIT preserved—In pulp—				
" In thin syrup ..	cwt.	0	3	1½
" " thick syrup ..	"	0	10	1½
" crystallised or preserved ..	"	0	14	0
" canned or bottled—				
In thin syrup ..	"	0	3	1½
Do., if Sugar duty does not exceed 1s. 10½d. the cwt.	"	0	1	10½
In thick syrup ..	"	0	8	3
imitation ..	"	0	14	0
" if sugar duty does not exceed 11s. 6d. the cwt.	"	0	11	6
" Flowers in crystallised sugar ..	"	0	14	0
GINGER, in syrup ..	"	0	10	1½
GLUCOSE, solid ..	"	0	8	10½
" liquid ..	"	0	6	4½
IMPORTED GOODS.—Motor cars, motor cycles, and parts thereof, clocks, watches, musical instruments, and parts thereof, are to pay an <i>ad valorem</i> duty of 33½ per cent.				
JAMS and MARMALADE ..	cwt.	0	10	1½
LICORICE ..	"	0	4	6
LIQUEURS, Cordials, etc., containing spirits, not sweetened (tested) ..	per proof gal.	0	15	2
" (not tested), liq. gal. in bots.		1	1	5
MARZIPAN ..	cwt.	0	8	3
MATCHES, imported, in boxes not containing over 80 matches, per 10,000 ..	"	0	3	6
" on excess per 10,000 ..	"	0	1	9
MILK, condensed ..	cwt.	0	5	9
(separated or skimmed, 6s. 4½d.; slightly sweetened, 2s. 6d.)				
MILK POWDER ..	cwt.	0	11	6
" free if declared no sugar.				
" if declared 36% added ..	"	0	5	1½
† MOLASSES, cont. 70% or more of sweetening matter ..	cwt.	0	8	10½
" 50 to 70% ..	"	0	6	4½
" 50% and under ..	"	0	3	1½
NESTLÉ'S MILK FOOD ..	"	0	4	6
PATENT MEDICINES, 3d. in the 1s.				
PLAYING CARDS .. per doz. packs		0	3	9
PLUMS, Prunes or Raisins ..	cwt.	0	10	6
SACCHARIN ..	oz.	0	4	6
SNUFF, cont. over 13% of moisture ..	lb.	0	6	7½
" not over ditto ..	"	0	8	0
SOAP, transparent, in manufacture of which spirit used ..	lb.	0	0	3
SOY, etc. ..	cwt.	0	3	1½
† SPIRITS, British — per proof gal.		0	14	9
" Brandy and Rum ..	"	0	15	1*

CUSTOMS DUTIES—*contd.*

† SPIRITS—Imitation Rum and Geneva, per proof gal.		£	s.	d.
(7½d. per gal. additional if sweetened.)		0	15	2*
" unenumerated and sweetened per proof gal.		0	15	9½
" do., not sweetened ..	"	0	15	2*
" perfumed liquid ..	"	1	4	1*
† SUGAR, polarization exc. 98% cwt.		0	14	0
" not exc. 76% ..	"	0	6	9
" between 76% and 98% ..	"			
Excise duties as per schedule.				
TABLE WATERS with sugar, or fermented beverages, gal.		0	0	4
" other kinds ..	"	0	0	8
TAMARINDS, etc. ..	"	0	3	1½
TEA ..	lb.	0	1	0
TINDER BOXES, etc., Imported, when spirit used ..	"	0	1	0
In any other case ..	"	0	0	6
Additional Excise Duty, similar amount.				
† TOBACCO, unmanufact., stripped or stemmed, cont. 10% or more of moisture, lb.		0	7	4½
" less than 10% ..	"	0	8	2½
" unstripped or unstemd. ..	"	0	7	4
" less than 10% ..	lb.	0	8	2
" manufact. Cavendish or Negrohead ..	lb.	0	10	8
TOBACCO, manufactured in Bond, Cavendish or Negrohead ..	lb.	0	9	4
TOBACCO, manufact., other sorts ..	"	0	9	4
WINE, not exceeding 30 deg. proof spirit ..	gal.	0	1	3*
" not exc. 42 deg. ..	"	0	3	0*
" for each additional deg. or part of a deg. ..	gal.	0	0	3
" additional on Still Wine imported in bottles, gal.		0	1	0
" addnl. on Sparkling Wine imported in bottles ..	gal.	0	2	6

\* One Shilling additional if imported in Bottles.

† Rates given are if warehoused 3 years or more.

‡ Subject to special drawbacks.

## POSTAL INFORMATION, INLAND.

Secretary— G. E. P. Murray, Esq.	Controller, London Postal Service— Sir R. Bruce, C.B.
Comptroller and Accountant General— Sir C. A. King, C.B.	Controller of Money Order Office— F. Wickham, Esq.
Solicitor— C. L. Davies, Esq., M.A.	Controller, Central Telegraph Office— J. Newlands, Esq., C.I.E.
Controller of Sav. Bank— H. Davies, Esq., C.B., I.S.O.	

LETTERS.—The rates for Letters are as follows: Not exceeding 1 oz., 1d.; not exceeding 2 oz., 2d.; every additional 2 oz., ½d. No letter may exceed 24 in. long, 12 in. wide, or 12 in. deep. Letters posted unpaid are charged double postage on delivery; those insufficiently paid, double the deficiency.

CERTIFICATES OF POSTING.—Any person who desires proof that an unregistered letter, &c., has been posted to a particular person should hand in the letter or other article at a Post Office and ask for a Certificate of Posting. The fee is ½d., payable by means of a stamp.

SINGLE LETTERS BY RAILWAY.—Single letters not exceeding 4 oz. in weight can be sent by railway. The ordinary postage must be paid by stamps, and a fee of 2d. for each letter must be paid to the railway servant to whom they are tendered. Such letters must be taken to a passenger station, and will be sent to destination by first available train. They may be addressed to the Parcel Office at the station of destination "to be called for," or, if so desired, will be sent by special messenger, or posted in the nearest Post Office for delivery by ordinary post.

EXPRESS DELIVERY.—Letters and parcels are accepted at most of the principal offices for express delivery, at a charge of 3d. for every mile or part, which includes cost of public conveyance (omnibus, tramcar, or railway). The packet must be handed over counter at the Post Office, with fee affixed in stamps to a form provided, and "Express" must be boldly written at top left corner. For express delivery after conveyance by ordinary post, ordinary postage, in addition to a charge of 3d. per mile from delivering office, must be affixed, and the packet, which should be marked "Express," may be posted in a letter box. Letters must also be marked back and front with a broad perpendicular line from top to bottom.

POSTAL INFORMATION—*contd.*

NEWSPAPERS.—The rate for Newspapers, unregistered, is a halfpenny for every 2 oz. For registered newspapers the rate is a halfpenny for every copy not exceeding 6 oz., and a further halfpenny for every additional 6 oz.; these must be so folded that the title may easily be read, and must be posted either without a cover or in one open so as to admit of easy removal for examination. Nothing in the nature of a letter may be written on a newspaper or its cover, except a reference to any part of the paper and a request for return in case of non-delivery. No packet may be above 2 lb. in weight, 24 in. long, 12 in. wide, or 12 in. deep.

BOOK POST.—The rate for Book Packets is a halfpenny for every 2 oz. This rate is applicable to packets containing printed or written matter not of the nature of a letter; on paper or other substance in ordinary use for printing; books or literary publications, sketches, drawings, paintings, maps, plans, &c.; invoices, advice notes, bills of lading, and similar commercial and legal documents, provided that nothing is written on them except entries proper to such documents; proofs or manuscripts for press, and examination papers under similar conditions, and circulars or printed notices. Circulars may be corrected in writing, and in the case of notices of meeting, the place, hour, date, and objects may also be inserted. (The word "printed" is intended to cover only forms produced in numbers by ordinary mechanical means; imitation type-written circulars are included if in identical terms and posted in numbers of not less than 20 specially handed over the counter at a Post Office and attention called to their nature.) Such packets may be posted either without a cover, or in one open so as to admit of easy withdrawal for examination. The ends may be secured with string, which must be easy to unfasten, but stamps may not be fixed partly to the wrapper and partly on the publication. Limit of size, 24 in. long, 12 in. wide or deep. Limit of weight, 5 lb.

SAMPLES.—The rate for Samples is 4 oz., 1d.; 6 oz., 1½d.; 8 oz., 2d. Limit of weight, 8 oz., and of size, 12 in. long, 8 in. wide, 4 in. deep. Available solely for samples or patterns without saleable value. Packets must be marked "Sample Post," and be made up so that contents can be easily withdrawn for examination. The name, trade, and address of the sender must be printed or stamped on wrapper. Written or printed matter admissible at Book Rate may be enclosed in same packet.

STAMPS are issued at following values: ½d., 1d., 1½d., 2d., 2½d., 3d., 4d., 5d., 6d., 7d., 8d., 9d., 10d., 1s., 2s. 6d., 5s., 10s. and £1. Books containing 18 at 1d. and 12 at ½d. are issued at 2s. each.

EMBOSSSED ENVELOPES.—Halfpenny stamps: Commercial, 5½ by 3½, 1 for ½d., 6 for 3½d. Penny stamps: A, 4½ by 3½, 1 for 1½d., 5 for 6d.; Commercial, 5½ by 3½, 1 for 1½d., 4 for 4½d.

NEWSPAPER WRAPPERS.—Halfpenny stamp, ¾d. each, 7 for 4d., or 1s. for a packet of 22; Penny stamp, 1½d. each, 8 for 8½d., or 2s. for a packet of 23. Sheets of halfpenny wrappers may be obtained at two days' notice in packets of 120 sheets of 14 wrappers each at £3 16s.

REGISTRATION & INSURANCE.—The fee for registering an Inland Packet of any kind is 2d. in addition to the postage, and in event of loss or damage this covers compensation up to £5, 3d. up to £20, and 1d. for each additional £20 up to £400. The packet must be enclosed in a strong cover, securely fastened, and marked "Registered"; if containing coin, it must (to gain the benefit of the Post Office guarantee) be enclosed in a special Registered Letter envelope sold at all Post Offices at the following rates:—F, 5½ by 3½, 3½d. each, or 2s. 2d. for 8; G, 6 by 3½, 3½d. for 1, 2s. 6d. for 9; H, 8 by 5, or H2, 9 by 4, 3½d. each, or 2s. 6d. for 8; K, 11½ by 6, 4d. each, or 2s. for 6. A registered packet must be given to a Post Office official, and a receipt obtained for



### POSTAL INFORMATION—contd.

it, and if, contrary to this rule, a packet marked "Registered" is dropped into a letter box, it becomes liable, on delivery, to a fee of 4d., less any amount prepaid in excess of the postage. Letters containing coin, jewellery, or watches, if posted without registration, are liable to a similar fee on delivery. The latest time for posting is usually half an hour before the box closes for the mail, but at all provincial head offices, and the chief offices in Edinburgh and Dublin, packets bearing a late fee of 4d., plus registration fee, may be registered till the box closes.

**POST CARDS.**—Two kinds are sold at the following rates: stout cards (4½ in. by 3½ in.), 3d. for one, 6d. for 11; thin cards (5½ in. by 3½ in.), 1d. each, 6d. for 12. Bundles of 110 stout 5s., 240 thin 10s. Uncut sheets of stout cards can be obtained at any Post Office at two days' notice in packets of 120 sheets (containing 42 cards each, or a total of 5,040 cards) for £11 5s. Reply Post Cards are issued at double these rates (stout 1. for 1½d., thin 1 for 1d.), but are not sold in uncut sheets. The official Post Cards, or private cards embossed with a halfpenny stamp by Office of Inland Revenue, may be used for correspondence throughout the United Kingdom, and private cards bearing an adhesive halfpenny stamp may also be used, providing they are composed of ordinary cardboard, and are of about the same size, not less than 4 in. by 2½ in. or more than 5½ in. by 3½ in. Nothing may be attached except gummed labels (not exceeding 2 in. long and ¾ in. wide) bearing the address of the person for whom intended and of the sender, and engravings, photographs, &c., on very thin paper; nor may cards be cut, folded, or altered to reduce the size below 4 in. by 2½ in.

**LETTER CARDS.**—Letter Cards are sold at 1d. each, 1s. for 12.

**GLASS, Liquids, Semi-Liquids, Greases, and Powders** may only be sent by post if specially packed.

**PARCELS** for conveyance within the United Kingdom may be posted at the counter (not in the letter box) of any Post Office. The limit of length allowed is 3 ft. 6 in., and the maximum of length and girth is 6 ft., i.e., a Parcel 3 ft. 6 in. long may measure 2 ft. 6 in. in girth round the thickest part.

The rates of postage, which must be prepaid, are as follows:—

1 lb. 4d.	4 lb. 7d.	7 lb. 8d.	10 lb. 11d.
2 " 5d.	5 " 7d.	8 " 9d.	11 " 1s.
3 " 6d.	6 " 8d.	9 " 10d.	

11 lb. is the limit allowed.

**PREPAYMENTS IN MONEY.**—At the General Post Office (King Edward Street and Mount Pleasant), London, between 9 a.m. and 4 p.m., and at the principal District and Branch Offices in London between 9 a.m. and 3.30 p.m., as well as at Edinburgh and Dublin and some other large towns between 10 a.m. and 4 p.m., inland Letters, Book Packets, Samples, and Parcels may be prepaid in money, provided that the articles are chargeable with a uniform rate of postage, that the amount is not less than 20s., and that the Letters, Samples, and Book Packets are tied in bundles of postal value of 5s. each, with addresses arranged in the same direction.

### FOREIGN AND COLONIAL POSTAL INFORMATION.

**LETTERS.**—The rate of postage on Letters addressed to British Possessions generally, to the United States, and to the places in Morocco where there are British Post Office Agencies, is 1d. per oz.; to all other Foreign Countries the rate is 2½d. for 1 oz., and 1½d. for each additional oz. No letter may be more than 24 in. long and 12 in. wide or deep.

### FOREIGN MAILS.

For Newspapers, Books, Commercial Papers, and Samples to all places abroad.

Newspapers and Books.	Commercial Papers.	Samples.
2 oz. .. 0½d.	10 oz. .. 2½d.	4 oz. .. 1d.
4 " .. 1d.	12 " .. 3d.	6 " .. 1½d.
6 " .. 1½d.	14 " .. 3½d.	8 " .. 2d.
8 " .. 2d.	16 " .. 4d.	10 " .. 2½d.
10 " .. 2½d.	18 " .. 4½d.	12 " .. 3d.

### FOREIGN MAIL DATES.

Under the conditions existing at the time of going to press, the Post Office was withholding from publication the days and dates of despatches, and merely gave the frequency of the despatches.

In the subjoined table the number of despatches made per month from the G.P.O., London, is shown by figures in brackets—thus: (1) once a month, (2) fortnightly, and so on. An asterisk indicates a daily mail. The figures at end of line show days in transit (approximate) in normal times, but the time occupied in transit at present is generally longer.

Aden (4) .....	10	Lisbon* .....	21
Africa, W. Brit. (6 to 8) ..	12 to 20	Madagascar (2) .....	24
Alexandria (see Egypt) ..	5	Madrid* .....	2
Algeria .....	24	Malta* .....	34
Amsterdam .....	4	Mauritius (2) .....	24 33
Argentina Repub. (4 or 5) ..	22	Mexico (8) .....	12
Ascension (1) .....	14	Montevideo (4 or 5) .....	21
Azores (2) .....	8	Mozambique (3 or 4) .....	25
Bagdad (4) .....	24	Muscat (4) .....	17
Bahamas (8) .....	13	Natal (3 or 4) .....	21
Barbados (4) .....	18	Newfoundland (4 or 5) ..	9
Bechuanaland (3 or 4) .....	21	New South Wales (2 or 3) ..	33
Belgium* .....	3	New York (8) .....	7
Bermuda (8) .....	13	New Zealand, via Suez ..	37
Bolivia (4) .....	33	New Zealand, via San Francisco (1); via Vancouver ..	23
Borneo (4) .....	33	Nicaragua (8) .....	27
Brazil (4 or 5) .....	17	Norway* .....	24
British East Africa and ..	17-19	Nyasaland (3 or 4) .....	26
Uganda (2 or 3) ..	17-19	Orange Free State (3 or 4) ..	19
Buenos Ayres (4 or 5) .....	22	Panama (8) .....	19
+Canada, via U.S. (8); D. rect (4) ..	8-13	Paraguay (4 or 5) .....	26
Canary Islands* .....	5-9	Penang (4) .....	20
Cape of Good Hope (3 or 4) ..	9	Peru (8) .....	30
Cape Verde Islands (3) .....	9	Petrograd* .....	24
Ceylon (4) .....	16	Philippine Islands (4) .....	31
Chili (4 or 5) .....	26	Portugal* .....	21
China (5) .....	29	Queensland (2 or 3) .....	33
Colombia, Rep. of (9) .....	17	Réunion .....	21
Congo, Belgian (2) .....	20	Rio Janeiro (4 or 5) .....	17
Copenhagen .....	15	Rome* .....	2
Costa Rica (8) ..	16	Roumania* .....	24
Cuba (8) .....	12	Russia* .....	24
Cyprus (4) .....	7	St. Helena (1) .....	17
Delagoa Bay (3 or 4) .....	21	St. Pierre et Miquelon ..	9
Denmark* .....	13	(same as Canada) ..	9
Dominica (4) .....	15	Salvador (8) .....	25
Ecuador (8) .....	24	Serbia* .....	3
Egypt (8) .....	24	Seychelles (1) .....	19
Falkland Islands (4) .....	25	Siam (4) .....	23
Faroe Islands (Irreg.) .....	10	Singapore (4) .....	22
Fiji, via Vancouver (1) .....	31	South Australia (2 or 3) ..	30
France* .....	4	Spain* .....	2
Gibraltar .....	34	Sweden* .....	1
Grenada (8) .....	27	Switzerland* ..	1
Guiana (4) .....	15	Tahiti (1) .....	24
Havana (8) .....	12	Tangier* .....	4
Hawaii, Honolulu (8) .....	20	Tasmania (2 or 3) .....	32
Hayti (8) .....	15	Teneriffe* .....	5-9
Holland .....	4	Transvaal (3 or 4) .....	19
Honduras, British (8) .....	17	Trinidad (4) .....	14
Honduras, Republic (8) .....	20	Tripoli, Africa* ..	6
+Hong Kong (4) .....	20	Tunis* .....	3
Iceland (Irreg.) .....	6	United States (8) .....	3
India (4) .....	14	Uruguay (4 or 5) .....	21
Italy* .....	2	Venezuela (8) .....	19
Jamaica (8) .....	13	Victoria (2 or 3) .....	31
Japan (5) .....	26-33	West Australia (2 or 3) ..	28
Jaya (4) .....	27	West Indies (4) .....	15
Labuan (4) .....	32	Zanzibar (2 or 3) .....	22
Liberia (6 to 8) .....	22		

+ Magazine post to Canada and Newfoundland: 6 oz. 1d.; 1 lb. 1½d.; 2 lb. 2d.; 3 lb. 3d.; 4 lb. 4d.; 5 lb. 5d.  
Letters and post cards are sent via Siberia. The despatches are made daily (about 25 days to Shanghai, 27 days to Yokohama). Printed papers, samples, etc., are sent via Suez as above, and also via Vancouver in the case of Japan.

### FOREIGN PARCEL POST.

The parcels rates for places abroad, and the limits of weight and dimensions, vary. Each parcel must be accompanied by a Declaration (for the Customs) of the contents and value, and to a large number of countries they may be insured at the same rate as for letters, but the insured value is in some cases limited to £20.

### MONEY ORDERS, INLAND.

Not exceeding £1 .. ..	2d.
Exceeding £1 and not exceeding £3 ..	3d.
" £3 .. ..	10 4d.
" £10 .. ..	20 6d.
" £20 .. ..	30 8d.
" £30 .. ..	40 10d.

No single Money Order may be issued for a higher amount than £40.

Money may be transmitted by telegraph from any Money Order Office in the United Kingdom which is a despatching office for telegrams, and may be paid at any Money Order Office which is also an office for the delivery of telegrams. The charges are in addition to the ordinary rates for Inland Money Orders, the cost of official telegram to office of payment, and a further fee of 2d. for each order.

### MONEY ORDERS, FOREIGN.

Foreign Money Orders are issued in the United Kingdom subject to the regulations of the country of payment. The rate for Orders payable in British Dominions, Colonies, Protectorates, &c., and in any of the Allied Countries or their Colonies, is 3d. for every £1 or fraction. For Orders payable in Neutral Countries or their Colonies the rate is 4d. for every £1 or fraction. The maximum amount allowed for a single Order is £40, but the limit for some countries is less than £40.

### POSTAL ORDERS.

Postal Orders are issued at all Money Order Offices. The commission chargeable is: For Orders up to 15s. inclusive, 1d.; from 15s. 6d. to 21s. inclusive, 1½d.

Postage stamps for odd pence not exceeding 5d. in value and 3 in number, may be affixed to the face of Postal Orders as value.

### TELEGRAPHIC INFORMATION, INLAND.

The charge for Telegrams written in plain language in any European tongue or in Latin is 9d. for the first 12 words, and 1d. for every additional word; name and address of receiver are counted, and those of sender also, if transmitted.

### TELEGRAPHIC INFORMATION, FOREIGN.

#### RATES FOR ORDINARY TELEGRAMS.

	Per Word		Per Word
Abyssinia .....	20 1 7	Mexico .. 1s. 6d. to 20 2 4	
Aden .....	0 2 0	Midway Island ..	0 4 0
Albania .....	0 0 4	*Montserrat ..	
Algeria and Tunis ..	0 0 2	Morocco .. 2s. 2d. or	0 2 6
Annam .....	0 3 6	Muscat .. 3d. to	0 0 6
*Antigua 2s. 2d. or	0 2 6	Natal ..	0 2 5
Argentina Repub. ..	2s. 6d. to	New Britain ..	0 3 3
Ascension .....	0 2 6	*New Brunswick ..	
Australia .....	0 3 0	.. 8d. or	0 1 0
Azores .....	0 0 9	New Caledonia ..	0 3 8
*Bahamas 2s. 1d. or	0 2 5	*Newfoundland ..	
*Barbados 2s. 2d. or	0 2 6	.. 8d. or	0 1 0
Bermuda 2s. 2d. or	0 2 6	New Guinea, Brit. ..	
Bokharu .....	0 0 4	.. 3s. 2d. to	0 3 3
Bolivia .....	0 2 0	*New York .. 8d. or	0 1 0
Borneo, British ..	0 3 2	New Zealand ..	0 2 8
Brazil .. 1s. 7d. to	0 5 1	Nicaragua 3s. 1d. to	0 3 4
Burma ..	1 8	Norfolk Island ..	0 2 8
*California 1s. 2d. or	0 1 6	Norway ..	0 0 2
Cameroon ..	0 4 9	*Nova Scotia 8d. or	0 1 0
*Canada 8d., 1s. to	0 3 2	Nyasaland Prot. ..	0 2 11
Canary Islands ..	0 0 5	Ocean Island ..	0 5 0
Cape of Good Hope ..	0 2 6	Orange Free State ..	0 2 6
Cape Verde Islands ..	2s. 2d. to	Panama .. 3s. 1d. to	0 3 11
.. 0 3 1		Paraguay 2s. 6d. to	0 2 0
Caroline Islands ..	0 3 11	Peru ..	0 2 0
Ceylon ..	0 1 8	Persia .. 1s. 6d. to	0 3 10
Chili .. 2s. 6d. to	0 2 9	Persian Gulf ..	
China .. 3s. 6d. to	0 3 9	.. 2s. 2d. to	0 2 6
Cochin China ..	0 3 0	Peru .. 2s. 9d. to	0 3 9
Cocos ..	0 2 6	Philippine Islands ..	
Colombia Republic ..	2s. 6d. to	.. 3s. 6d. to	0 4 8
*Columbia, British ..	0 3 2	*Porto Rico ..	
1s. 2d. or 1s. 6d. to	0 3 2	.. 2s. 9d. or	0 3 1
Comoro Islands ..	0 2 8	Portugal ..	0 0 3
Congo, Belgian ..	2s. 9d. to	Poulo Condore Is. ..	0 3 2
.. 0 3 11		Réunion ..	0 2 8
Corea ..	0 3 4	Rhodesia, Northern ..	0 2 11
Costa Rica ..	0 0 4	.. Southern ..	0 2 8
Crete ..	0 0 4	Rodriguez ..	0 2 6
Cuba .. 1s. 8d. to	0 1 10	Roumania ..	0 0 5
Curacao ..	0 6 9	Russia ..	0 0 4
Cyprus ..	0 1 0	Russia in Asia ..	0 0 4
Denmark ..	0 0 2	Salvador .. 3s. 1d. to	0 3 4
*Dominica 2s. 2d. or	0 2 6	Samoa .. 3s. 5d. to	0 3 8
Dutch East Indies ..	0 3 2	San Domingo ..	0 4 4
E. Coast of Africa ..	1s. 6d. to	*Sandwich Islands ..	
.. 0 2 9		.. 2s. 3d., 2s. 7d. to	0 3 2
Ecuador ..	0 2 9	Seychelles ..	0 3 6
Egypt .. 1s. to	0 1 4	Siam .. 2s. 10d. to	0 3 6
Falkland Islands ..	0 3 11	Singapore ..	0 2 10
Fanning Island ..	0 2 6	Somaliand, Brit. ..	0 2 6
Faroe Islands ..	0 0 3	Spain .. 3d. to	0 0 5
Fernando Po ..	0 5 0	Spitzbergen ..	0 0 0
Fiji .. 2s. 8d. to	0 2 11	*St. Croix 2s. 9d. or	0 3 1
Formosa ..	0 3 11	St. Helena ..	0 2 6
France ..	0 0 2	*St. Kitts 2s. 2d. or	0 2 0
Gibraltar ..	0 0 3	*St. Lucia 2s. 2d. or	0 2 6
Greece .. 5d. to	0 0 6	St. Pierre et ..	
*Grenada 2s. 2d. or	0 2 6	Miquelon ..	0 1 0
Guadeloupe ..	0 4 9	.. 2s. 9d. or	0 3 1
Guam Island ..	0 4 9	*St. Thomas ..	
Guatemala 3s. 1d. to	0 3 4	.. 2s. 9d. or	0 3 1
*Guiana, British ..	2s. 2d. or	Sweden .. 2s. 2d. or	0 2 6
.. 0 2 6		Switzerland ..	0 0 2
Guiana, Dutch ..	0 6 9	Tahiti ..	0 4 2
Guiana, French ..	0 6 3	Togoland ..	0 3 17
Hayti .. 4s. 4d. to	0 6 5	Tonquin ..	0 3 6
Hedjaz ..	0 2 6	Transvaal ..	0 2 6
Holland ..	0 0 2	*Trinidad 2s. 2d. or	0 0 7
Honduras, British ..	0 2 6	Tripoli, Africa ..	0 0 7
Honduras Repub. ..	0 3 4	Tulagi ..	0 4 6
Iceland ..	0 0 4	Tunis ..	0 0 2
India ..	0 1 3	*Turks Island ..	
Italy ..	0 0 2	.. 2s. 2d. or	0 2 6
*Jamaica 2s. 2d. or	0 2 6	*United States ..	
Japan ..	0 3 11	.. 8d., 1s. to	0 2 7
*Labrador .. 10d. to	0 1 2	Uruguay 2s. 6d. to	0 2 9
Labuan ..	0 2 10	*Vancouver Island ..	
Liberia ..	0 4 0	.. 1s. 2d. or	0 1 6
Madagascar ..	0 2 8	Venezuela ..	0 5 0
Madra ..	0 1 0	West Coast of Africa, ..	
Malay Peninsula ..	2s. 10d. to	British 3s. 2d. to	0 4 6
.. 0 3 9		Do., French ..	
Malta ..	0 0 4	.. 1s. 4½d. to	0 4 8
Marle Galante ..	0 4 9	S.W. Africa ..	0 2 8
Marshall Islands ..	0 3 3	W. Afr., Portuguese ..	0 5 8
Martinique ..	0 4 9	.. 3s. 6d. to	0 5 8
Mauritius ..	0 2 6	Western Australia ..	0 3 0
Mesopotamia ..	0 2 3	Zanzibar 2s. 6d. to	0 2 8
		Zululand ..	0 2 6

\* The cheapest rate is via Marconi, when this route must be stated on telegram.

### RADIOTELEGRAMS—WIRELESS TELEGRAPHY.

Radiotelegrams may be sent to ships equipped with wireless telegraph apparatus via the Wireless Stations abroad. The service through Coast Stations in the United Kingdom is suspended. The charges for telegrams vary considerably, and can be ascertained on application at Telegraph Offices. For those sent through Coast Stations abroad there are additional charges per word, plus the charge for transmission to the Coast Station. The name of the ship and of the Wireless Telegraph Station or the word "Wireless" should appear in the address. Example:—"Edwards, Steamship New York, Lizard. The name of the Wireless Station is counted as one word.



## PARCELS RATES

(CORRECTED TO TIME OF GOING TO PRESS).

Great Northern, Great Western, Midland,  
London and North Western, and London  
and South Western Railways.

Weight, lb.	30 <sup>+</sup> miles s. d.	50 <sup>+</sup> miles s. d.	100 <sup>+</sup> miles s. d.	Above 100 miles** s. d.	Over 112 charged per lb.
7	0 6	0 8	0 9	0 9	
14	0 6	0 8	1 2	1 4	* 1d.
24	0 6	1 0	1 7	2 1	
28	0 7	1 3	1 10	2 5	† 1d.
32	0 8	1 5	2 1	2 9	
36	0 9	1 7	2 4	3 1	‡ 1d.
40	0 10	1 9	2 7	3 6	
44	0 11	1 11	2 10	3 10	** 1d.
56	1 2	2 5	3 8	4 10	
68	1 5	2 11	4 5	5 11	
84	1 9	3 8	5 6	7 3	
92	1 11	4 0	6 0	8 0	
96	2 0	4 2	6 8	8 4	
112	2 4	4 8	7 0	9 4	

## South Eastern and Chatham Railway.

Weight, lb.	20 <sup>+</sup> miles s. d.	30 <sup>+</sup> miles s. d.	50 <sup>+</sup> miles s. d.	Above 50 miles** s. d.	Every 14 lb. (or 112 lbs.) over
7	0 4	0 6	0 6	0 9	1 1
14	0 4	0 6	0 9	1 1	1 6
24	0 6	0 8	1 0	1 6	* 2d.
28	0 7	0 9	1 2	1 7	
32	0 8	0 9	1 4	2 0	† 3d.
36	0 9	0 9	1 6	2 0	
40	0 10	0 10	1 8	2 2	‡ 4d.
44	0 11	0 11	1 10	2 6	
56	1 0	1 2	2 0	2 9	** 6d.
68	1 2	1 5	2 3	3 4	
84	1 3	1 9	2 6	3 6	
92	1 4	1 11	2 9	4 0	
96	1 5	2 0	2 9	4 0	
112	1 6	2 4	3 0	4 6	

Booking fee, 2d.

## Great Eastern Railway.

Weight, lb.	30 miles s. d.	Weight, 30 to 50 lb. miles s. d.	Weight, Above 50 miles s. d.
1	0 4	1 0 4	1 0 4
2	0 4	2 0 4	2 0 4
3	0 5	3 0 5	3 0 5
4 to 24	0 6	4 to 6 0 6	4 0 6
25 to 28	0 7	7 to 12 0 8	5 0 7
29 to 32	0 8	13 to 15 0 9	6 & 7 0 8
33 to 36	0 9	16 to 18 0 10	8 to 16 0 10
37 to 40	0 10	19 to 21 0 11	17 & 18 0 11
Excess above 40 lb., 1d. per lb.		22 to 24 1 0	19 & 20 1 0
		Excess above 24 lb., 1d. per lb.	Excess above 20 lb., 1d. per lb.

Farm Produce in boxes, at owner's risk, not ex. 60 lb.:  
20 lb., 4d.; above 20 lb., 5 lb. 1d. Fractions of a  
penny are charged as a penny. Each parcel is charged  
separately.

## Brighton and South Coast Railway.

Weight, lb.	20 <sup>+</sup> miles s. d.	30 <sup>+</sup> miles s. d.	50 <sup>+</sup> miles s. d.	100 <sup>+</sup> miles s. d.	Every 14 lb. (or 112 lbs.) part (over
7	0 4	0 6	0 6	0 9	1 1
14	0 6	0 6	0 9	1 1	1 1
24	0 6	0 6	1 0	1 5	* 2d.
28	0 7	0 7	1 2	1 7	
32	0 8	0 8	1 4	1 9	† 3d.
36	0 9	0 9	1 6	2 0	
40	0 10	0 10	1 8	2 2	‡ 4d.
44	0 11	0 11	1 10	2 5	
56	1 0	1 2	2 0	2 9	** 5d.
68	1 2	1 5	2 3	3 4	
84	1 3	1 9	2 6	3 6	
92	1 4	1 11	2 9	3 9	
96	1 5	2 0	2 9	3 9	
112	1 6	2 4	3 0	4 0	

## Pickfords, Ltd.

London and Suburban, and Home Counties Area.

Weight, lb.	30 miles s. d.	Weight, 30 to 50 lb. miles s. d.	Weight, Above 50 miles s. d.
4 lb.	0 4	1 cwt.	1 6
7	0 6	1 1/2 "	1 9
14	0 8	1 1/2 "	2 0
28	0 10	1 1/2 "	2 3
56	1 0	2 "	2 6
84	1 3		

Every additional 28 lb. (or part) 3d.

These rates are subject to a War Levy of 25%.

London Parcels Delivery Co., and Carter,  
Paterson & Co., Ltd.

Not ex.	s. d.	Not ex.	s. d.
4 lb.	0 4	1 cwt.	1 6
7	0 6	1 1/2 "	1 9
14	0 8	1 1/2 "	2 0
28	0 10	1 1/2 "	2 3
56	1 0	2 "	2 6
84	1 3		

Every additional 28 lb. (or part) 3d.

These rates are subject to a War Levy of 25%.

## SCOTCH RAILWAY RATES.

North British, Caledonian, and  
Glasgow and South Western Railways.

Weight, lb.	10 miles s. d.	20 miles s. d.	50 miles s. d.	100 miles s. d.	150 miles s. d.	200 miles s. d.	200 miles & above, s. d.
4	0 4	0 6	0 6	0 6	0 6	0 6	0 6
5	0 4	0 6	0 6	0 7	0 7	0 7	0 7
6	0 4	0 6	0 8	0 8	0 8	0 8	0 8
7	0 4	0 6	0 8	0 9	0 9	0 9	0 9
9	0 4	0 6	0 8	0 11	0 11	0 11	0 11
10	0 4	0 6	0 8	1 0	1 0	1 0	1 0
12	0 6	0 6	0 10	1 1	1 3	1 3	1 3

## BANK TRANSFER DAYS, &amp;c.

Transfer Days are Mon., Tues., Wed.,  
Thurs., and Fri. Instructions for Trans-  
fers received 9 a.m. to 12.15 p.m. (12.15  
to 2 p.m., fee 2s. 6d.) Transfers must be  
executed between 10.30 and 2 p.m.  
Transfers can be accepted 9 a.m. to 3 p.m.  
(9 to 1 on Saturdays). Transfers can be

## MEAN TIME OF HIGH WATER AT LONDON BRIDGE, 1918.

Day of Month	JANUARY.		FEBRUARY.		MARCH.		APRIL.		MAY.		JUNE.	
	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.
1	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
2	4. 3	4.36	4.43	5. 9	3.46	4.12	4.21	4.37	4.38	4.52	6. 4	6.16
3	4.36	5. 8	5.12	5.37	4.15	4.38	4.54	5. 9	5.19	5.35	7. 0	7.11
4	5. 8	5.41	5.44	6.10	4.43	5. 5	5.30	5.47	6.10	6.28	8. 0	8.18
5	5.45	6.18	6.22	6.49	5.13	5.34	6.17	6.39	7. 9	7.29	9.10	9.32
6	6.24	6.57	7. 8	7.39	5.49	6.10	7.17	7.46	8.20	8.46	10.23	10.45
7	7. 9	7.43	8.10	8.50	6.33	6.58	8.38	9.13	9.44	10.10	11.29	11.48
8	8. 1	8.42	9.34	10.20	7.30	8. 5	10.14	10.44	11. 0	11.18	—	0.26
9	9.13	9.59	11. 8	11.46	8.55	9.40	11.31	11.50	11.58	—	0.46	1.17
10	10.34	11.16	—	0.25	10.36	11.13	—	0.29	0.12	0.46	1.40	2. 4
11	11.47	—	0.47	1.19	11.59	—	0.40	1.13	1. 0	1.30	2.29	2.49
12	0.19	0.45	1.33	2. 5	0.21	0.57	1.24	1.54	1.48	2.15	3.16	3.33
13	1. 8	1.33	2.16	2.50	1. 9	1.43	2. 8	2.38	2.38	3. 2	4. 0	4.12
14	1.53	2.19	2.57	3.33	1.51	2.24	2.54	3.21	3.26	3.45	4.40	4.49
15	2.36	3. 4	3.38	4.13	2.34	3. 5	3.39	4. 4	4.11	4.28	5.20	5.27
16	3.18	3.48	4.18	4.51	3.18	3.47	4.24	4.45	4.56	5.10	6. 3	6. 9
17	3.53	4.30	4.59	5.31	4. 0	4.26	5. 7	5.27	5.42	5.55	6.48	6.53
18	4.39	5.13	5.42	6.13	4.41	5. 6	5.55	6.18	6.32	6.45	7.35	7.43
19	5.23	5.56	6.29	7. 2	5.24	5.48	6.52	7.17	7.27	7.40	8.29	8.44
20	6. 8	6.40	7.27	8. 4	6.11	6.37	7.58	8.28	8.28	8.46	9.32	9.53
21	6.57	7.31	8.44	9.32	7. 8	7.40	9.18	9.50	9.36	9.58	10.40	11. 2
22	7.55	8.36	10.22	11. 0	8.23	9. 3	10.40	11. 3	10.45	11. 3	11.41	—
23	9.13	10. 1	11.50	—	9.57	10.38	11.45	11.59	11.41	11.56	0. 1	0.30
24	10.45	11.28	0.21	0.55	11.26	11.50	—	0.32	—	0.26	0.51	1.13
25	—	0. 6	1.11	1.39	—	0.26	0.41	1. 8	0.40	1. 5	1.35	1.52
26	0.36	1. 5	1.47	2.13	0.40	1.12	1.17	1.40	1.18	1.39	2.16	2.31
27	1.26	1.53	2.18	2.46	1.19	1.47	1.50	2.10	1.56	2.15	2.59	3.12
28	2. 6	2.32	2.48	3.17	1.50	2.16	2.21	2.39	2.34	2.49	3.41	3.50
29	2.41	3. 8	3.17	3.45	2.21	2.44	2.53	3.11	3.12	3.26	4.23	4.30
30	3.14	3.43	—	—	2.50	3.12	3.28	3.44	3.52	4. 2	5. 7	5.14
31	3.45	4.14	—	—	3.20	3.39	4. 2	4.16	4.30	4.40	5.54	6. 0
30	4.14	4.42	—	—	3.49	4. 7	—	—	5.14	5.24	—	—

Day of Month	JULY.		AUGUST.		SEPTEMBER.		OCTOBER.		NOVEMBER.		DECEMBER.	
	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.	MOR.	AFT.
1	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.	H. M.
2	6.44	6.50	8. 3	8.33	10.36	11.21	11.25	—	0.20	0.24	0.18	0.28
3	7.36	7.49	9.20	10. 1	11.52	—	0. 5	0.19	0.28	1. 0	0.55	1. 8
4	8.38	8.59	10.46	11.27	0.26	0.46	0.52	0.58	1.29	1.33	1.29	1.46
5	9.50	10.17	—	0. 3	1.14	1.26	1.29	1.31	2. 0	2. 6	2. 3	2.22
6	11. 4	11.33	0.37	1. 0	1.53	2. 0	1.59	2. 2	2.29	2.39	2.37	3. 0
7	—	0.11	1.29	1.44	2.27	2.31	2.28	2.33	2.57	3.13	3.12	3.37
8	0.40	1. 7	2.12	2.22	2.59	3. 0	2.57	3. 4	3.28	3.47	3.47	4.14
9	1.33	1.53	2.50	2.56	3.28	3.30	3.25	3.35	3.59	4.21	4.21	4.52
10	2.20	2.36	3.25	3.29	3.56	4. 0	3.52	4. 5	4.32	4.59	4.59	5.36
11	3. 4	3.16	3.59	3.59	4.23	4.29	4.20	4.37	5.11	5.46	5.44	6.26
12	3.47	3.54	4.30	4.28	4.51	5. 1	4.51	5.13	6. 0	6.41	6.33	7.21
13	4.24	4.26	4.58	4.59	5.20	5.37	5.28	5.58	6.57	7.43	7.32	8.25
14	4.58	4.58	5.27	5.31	5.58	6.22	6.17	6.56	8. 9	9. 6	8.44	9.39
15	5.33	5.33	5.59	6. 8	6.46	7.20	7.19	8.11	9.28	10.24	10. 2	10.52
16	6. 8	6.11	6.38	6.54	7.53	8.40	8.42	9.44	10.43	11.29	11.15	11.56
17	6.46	6.54	7.25	7.54	9.20	10.16	10.10	11. 4	11.44	—	—	0.18
18	7.28	7.42	8.33	9.15	10.51	11.37	11.19	—	0.22	0.35	0.49	1.14
19	8.20	8.47	10. 0	10.48	11.56	—	0. 2	0.12	1. 8	1.26	1.40	2. 6
20	9.29	10. 6	11.24	—	0.33	0.43	0.47	0.56	1.53	2.16	2.28	2.57
21	10.47	11.24	0. 0	0.24	1.13	1.23	1.29	1.42	2.40	3. 4	3.14	3.43
22	11.56	—	0.55	1.10	2. 0	2. 6	2.13	2.29	3.24	3.50	3.54	4.24
23	0.28	0.50	1.39	1.51	2.41	2.50	2.57	3.17	4. 7	4.36	4.33	5. 5
24	1.18	1.32	2.23	2.33	3.24	3.34	3.40	4. 2	4.50	5.22	5.11	5.46
25	2. 1	2.13	3. 6	3.13	4. 4	4.16	4.23	4.43	5.36	6.13	5.50	6.29
26	2.45	2.55	3.48	3.55	4.45	5. 2	5. 7	5.36	6.26	7. 7	6.32	7.15
27	3.29	3.44	4.27	4.37	5.27	5.50	5.55	6.32	7.19	8. 7	7.21	8. 6
28	4.10	4.14	5. 7	5.19	6.17	6.48	6.55	7.42	8.23	9.19	8.19	9. 8
29	4.52	4.56	5.50	6. 8	7.19	8. 1	8. 8	9. 2	9.36	10.31	9.32	10.21
30	5.33	5.40	6.40	7. 4	8.41	9.32	9.28	10.24	10.46	11.32	10.48	11.27
31	6.17	6.28	7.39	8.18	10.12	11. 0	10.44	11.32	11.42	—	11.51	—
31	7. 5	7.24	9. 2	9.51	—	—	11.39	—	—	—	0.20	0.45







WEIGHTS AND MEASURES—contd.

SQUARE MEASURE.

144 Sq. Inches = 1 Square Foot.  
9 Sq. Feet = 1 Square Yard.  
30½ Sq. Yards = 1 Square Perch.  
40 Perches = 1 Rood.  
4 Roods = 1 Acre (4,840 sq. yds.).  
640 Acres = 1 Square Mile.

SURVEYORS' MEASURE.

62·7264 Sq. Inches = 1 Sq. Link.  
625 Sq. Links . . . = 1 Rod, Pole, or Perch.  
10,000 Sq. Links = 1 Chain.  
25,000 " = 1 Rood.  
10 Sq. Chains . . . = 1 Acre.

CUBIC MEASURE.

1728 Cubic Inches = 1 Cubic Foot.  
27 Cubic Feet = 1 Cubic Yard.  
(¾ of a Cubic Metre.)  
40 Cubic Feet unheewn timber, or 50 Feet squared = 1 Ton or Load.  
108 Feet . . . . . = 1 Stack.  
600 Sq. feet 1 in. plank, 400 1½ in., or 300 2 in. = 1 Load.

YARN MEASURE.

2 Yarns . . . . . = 1 Thread.  
40 Threads . . . . . = 1 Lea or Warp.  
7 Leas . . . . . = 1 Hank.

WOOL MEASURE.

1 Clove . . . . . = 7 lbs.  
1 Stone . . . . . = 2 Cloves, 14 lbs.  
1 Tod . . . . . = 2 Stone, 1 qr.  
1 Wey . . . . . = 6½ Tod 1 cwt.  
2 qrs. 14 lb.  
1 Pack . . . . . = 240 lbs.  
1 Sack . . . . . = 2 Weys 13 qrs.  
1 Last . . . . . = 12 Sacks 39 cwt.

ANGULAR MEASURES.

60 Seconds (") . . = 1 Minute.  
60 Minutes (') . . = 1 Degree.  
30 Degrees (°) . . = 1 Sign.  
90 Degrees . . . . = 1 Quadrant.  
360 Degrees . . . . = 1 Circle.

MISCELLANEOUS.

Bread, quartern loaf = 4 lbs.  
Bricks, load of = 500.  
Butter, firkin of = 56lbs; barrel = 224lbs.  
Coals, Sack, 2 cwt.; Small do., 1 cwt.  
Coke, Sack = 1 cwt. (about 3 bushels).  
" Chaldron = 12 sacks (12 cwt.).  
Flour, barrel, 196 lbs.; sack, 280 lbs.; peck, 14 lbs.  
Glass, Seam of = 120 lbs.  
Hay, Old, load = 36 trusses (18 cwt.).  
Do., " truss = 56 lbs. [32 lbs.).  
Do., New, load = 36 trusses (19 cwt.).  
" " truss = 60 lbs.  
Hops, pocket of = 1½ to 2 cwt.  
Paper, quire = 24 sheets.  
" ream = 20 quires.  
Parchment, roll of = 60 skins.  
Potatoes, sack of = 168 lbs.  
Raisins, box of = 56 lbs.  
" barrel = 112 lbs.  
Soap, soft, firkin = 64 lbs.  
" " barrel = 256 lbs.  
Straw, load = 36 trusses (11 cwt. 64lbs.).  
" truss of = 36 lbs.  
Tea, chest of, Congou = 80 to 100 lbs.  
" " Hyson = 60 to 80 lbs.

FRENCH WEIGHTS & MEASURES.

1 Gramme . . . = 15·43 grains.  
1 Kilogram . . . = 2 lbs. 3¼ ozs.  
1 Ounce Troy . . = 31·1 grammes.  
1 Ounce Avoir . . = 28½ grammes.  
1 Pound . . . . = 453½ grammes.  
1 Quarter . . . . = 12·70 kilogr.  
1 Ton . . . . . = 1016 kilogr.  
1 Metre . . . . . = 39½ inches.  
1 Kilometre . . . = 1093½ yards.  
1 Yard . . . . . = 91½ centimetres.  
1 Aune (interdicted) = 47 inches.  
1 Litre . . . . . = 1½ pints.  
1 Pint . . . . . = 56½ centilitres.  
1 Gallon . . . . . = 4·54 litres.  
1 Franc per Kilogr. = 4½d. per lb., or 40s. 7½d. per cwt.  
1s. per Pound = 2 fr. 76 c. per kilog.  
1 Franc per Metre = 8½d. per yard.  
1s. per Yard = 1 fr. 37 c. per metre.  
1 Franc per Litre = 3s. 7½d. per gallon.  
1s. per Gallon = 27½ cts. per litre.  
1 Franc per Aune = 7½d. per yard.

READY RECKONER AND MARKETING TABLE.

No.	1d.	2d.	3d.	4d.	5d.	6d.	7d.	8d.	9d.	10d.	11d.	No.
1	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	1
2	0 0	0 0	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	2
3	0 0	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	3
4	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	4
5	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	5
6	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	6
7	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	7
8	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	8
9	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	9
10	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	10
11	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	11
12	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	12
13	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	13
14	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	14
15	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	15
16	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	16
17	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	17
18	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	18
19	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	19
20	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	20
21	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	21
22	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	22
23	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	23
24	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	24
25	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	25
26	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	26
27	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	27
28	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	28
29	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	29
30	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	30
31	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	31
32	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	32
33	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	33
34	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	34
35	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	35
36	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	36
37	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	37
38	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	38
39	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	39
40	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	40
41	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	41
42	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	42
43	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	43
44	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	44
45	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	45
46	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	46
47	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	47
48	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	48
49	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	49
50	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	50
51	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	51
52	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	52
53	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	53
54	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	54
55	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	55
56	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	56
57	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	57
58	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	58
59	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	59
60	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	60
70	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	70
80	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	80
90	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	90
100	0 0	0 1	0 2	0 3	0 4	0 5	0 6	0 7	0 8	0 9	0 10	100

INCOME AND WAGES TABLE.

Per Year		Per Mth.		Per Week		Per Day		Per Year		Per Month		Per Week		Per Day	
£	s.	s.	d.	s.	d.	£	s.	£	s.	£	s.	£	s.	£	s.
0	10	0	10	0	21	10	10	0	17	65	0	5	8	1	5
1	0	1	8	0	4	11	0	0	18	70	0	5	16	1	6
1	10	2	6	0	7	11	10	0	19	75	0	6	5	1	8
2	0	3	4	0	9	12	0	0	0	80	0	6	13	1	10
2	2	3	6	0	9	12	12	1	1	85	0	7	1	12	8
2	10	4	2	0	11	13	0	1	1	90	0	7	10	1	14
3	0	5	0	1	1	13	13	1	2	95	0	7	18	1	16
3	3	5	3	1	2	14	0	1	3	100	0	8	6	1	18
3	10	5	10	1	4	14	14	1	4	150	0	12	10	2	17
4	0	6	8	1	6	15	0	1	5	200	0	16	13	3	16
4	4	7	0	1	7	15	15	1	6	250	0	20	16	4	16
4	10	7	6	1	8	16	0	1	6	300	0	25	0	5	15
5	0	8	4	1	11	16	16	1	8	350	0	29	3	6	14
5	5	8	9	2	0	17	0	1	8	400	0	33	6	7	13
5	10	9	2	2	1	17	17	1	9	450	0	37	10	8	13
6	0	10	0	2	3	18	0	1	10	500	0	41	13	9	12
6	6	10	6	2	5	18	18	1	11	550	0	45	16	10	11
6	10	10	10	2	6	19	0	1	11	600	0	50	0	11	10
7	0	11	8	2	8	20	0	1	13	650	0	54	3	12	10
7	7	12	3	2	10	20	0	2	1	700	0	58	6	13	9
7	10	12	6	2	10	25	0	2	10	750	0	62	10	14	8
8	0	13	4	3	1	35	0	2	18	800	0	66	13	15	7
8	8	14	0	3	2	40	0	3	6	850	0	70	16	16	6
8	10	14	2	3	3	45	0	3	15	900	0	75	0	17	6
9	0	15	0	3	5	50	0	4	3	950	0	79	3	18	5
9	9	15	9	3	7	55	0	4	11	1000	0	83	6	19	4
10	0	16	8	3	10	60	0	5	0						



31 Days.

JANUARY, 1918.

JAN. 9 to 13

FERTILIZATION OF *Callitriche*

11 FRIDAY [11-354]

Hilary Law Sittings begin.

GUILDENSTON, 1918, S.W. 55-70-10-15, 17

The fly *B. pilicornis* and the yellow fly *Callitriche* was seen to be affected by a *Callitriche* fly.

The fly is attracted to the flower by its scent of clove. It alights soon or later on the open long narrow apex of the lip. Now the lip petal is very delicately balanced by a hinge over the base of the column foot, and as the insect moves forward it passes over the point of balance when the base of the lip is forced backwards and downwards throwing the insect off on to the column foot and imprisoning it there. In its struggles to free itself the insect is almost certain to pass its thorax against the stigma and will pick up some of the sticky substance. Finally as it moves to the base of the lip in order to escape between the two ears, it shall push against the anther, raise it, and the pollen will be carried away adhering to the sticky petals. Continuing to move to the base of the lip, the insect then passes over the point of balance when the apex of the lip is suddenly forced forwards and downwards throwing off the insect. On visiting the next flower the same thing will occur but when it struggles to free itself the insect brushes its thorax against the stigma, the pollinia will remain on the stigma and fertilize the flower.

12 SATURDAY [12-353]

● New Moon, 10.36 p.m. S.R. 8.5, S.S. 4.12.

*B. pilicornis*. Though the flowers of this species may also be fertilized by the direct agency of insects, I think that in the majority of cases fertilization ~~is~~ of the flower is effected by its own pollen.

The flower is a widely expanded one with a large broad stigma and there can be no question of the imprisonment of an insect. What was observed however on several occasions was as follows. Soon after the opening of the flower the stigmatic juices are produced in great quantity so that they first stand high above the edges of the stigma and finally overflow onto the column foot. At the same time it was seen that with every jerk given to the flower by the advent of insects (wind, etc.), the anther became gradually opened backwards upon its filament while the pollinia were first loosened and finally dislodged being shot upwards and then falling. It would be easy for the pollinia in falling to be arrested on the stigma, and considering the open structure of the flower I am of opinion that it would also be more reliable than fertilization by insects.

13 Sunday [13-352]

1st after Epiphany.



7  
BILLS DUE WITH GRACE.  
30 Days—Feb. 16.  
60 Days—Mar. 18.  
90 Days—April 17.

# JANUARY, 1918.

1st Month.

14 MONDAY [14—351]

15 TUESDAY [15—350]







9

BILLS DUE WITH GRACE.

30 Days—Feb 20.  
60 Days—Mar. 22.  
90 Days—April 20.

# JANUARY, 1918.

1st Month.

18 FRIDAY [18—347]

19 SATURDAY [19—346]

First Quarter, 2.38 p.m. S.R. 7.59, S.S. 4.23.

20 Sunday [20—345]

2nd after Epiphany.



JANUARY, 1918.

JAN. 18 to 22.

21 MONDAY: [21-344]

with or after flower, plaited.

Scape lateral, flowers & cense, rarely pinkish. Receptacle  
erect from base or foot of column. base  
saccate or with a mentum or short spur; lateral lobes  
column rarely 0; middle lobe spreading or recurved;  
disk crested, softly spinous or lamellate. Column short or long  
top oblique, entire; anther terminal, 2-celled; pollinia 2 or 4  
sessile or attached by a short strap. ovoid gland of the  
rostellum. — Species about 50, tropical, chiefly Asiatic.

I follow Benth, & others, in removing Cyrtopera from Cyrtopodium (where it is placed in Gen. Plant.) & including it as a section under Eulophia, there being a direct passage with those without, a foot to the Column. In sect Cyrtopera the lateral sepals are inserted either on the foot of the column leaving the spur or subt<sup>le</sup> spec, or their insertion extends along the spur, which then is technically a mentum. The perianth of Eulophia is undistinguishable from that of the Dipodium, Geodorum, Placoglottis & Succisa of which the 2 first might but for habit be united with it. The 2 latter differ in having creeping rhizomes, usually solitary leaves, & more than 2 pollinia. Chrysoglossum resembles a Eulophia with the f. thalia free from the hostellum.

Sec I. *Eulophia* proper. Colium <sup>22 THURSDAY [22 543]</sup> not produced into a foot.  
 Leaves & flowers coetaneous, or nearly so.  
 + Pseud. ~~Colium~~ large, epigeal; stem. Leaves very narrow.  
 scape often branched.

*E. Virens*, Brown in Bot. Rep. sub 1575 (*Eulophus*); leaves grass-like  
bracts very small ovate acute sepals linear-oblong  
subulate obtuse, petals elliptic obtuse, lip obovate-oblong  
side lobes small, disk with 5-crested nerves.

*Dioscorea*. *Hindl.* Gen & Sp. Gachin 1821 p. 50. *Journ. Lin.* Soc. iii. 24;  
*Night.* Dec. 1913; *Rob.* Mag. 15579; *Halp.* Ann. VI. 647. *Ecarinata*  
*Hindl.* Gen & Sp. orchid. 183. *Carnation*, Spreng-  
*Syst.* Veg. iii. 718. *Strapies epidendrea*, Retz Obs. vi. 65.  
*Lymodorum virens*, Swartz in Rob. Act. Acad. vi. 79; *Repb.*  
*Bot.* Pl. i. 38; *Sl.* Ind. ii. 467. *Epidendroides*, Willd.,  
*Sp.* Pl. iv. 124 - *Rheed.* Hort. Mal. XII t. 26 + ? 25.  
*Balsamorhiza hederacea* Penn.; in dry ground

Pseudobulb large, conico-oligopyriform. Leaves many  
broadly (1/2 inch), oblanceolate. Stem 3 ft. sepals 2 1/2,  
petals green, reddish inside, glister, longer sepals, white  
with red crested nerves, spurred, red cylindric or  
funiculate rhizome 26 inch thick, thin, 25 may be  
E. graciosa. root 5 ft. id



2. E.

23 WEDNESDAY [23-342]

framinea. Lindl. in Wall. Cat. 7372; Gen. sp. Orchid 182; in Journ. Linn Soc. iii. 23; leaves grass-like, bracts small lanceolate, sepals lanceolate acuminate, petals terrellate, lip obovate-oblong, side lobes small disk with 3-5 lamellate or crested nerves which are <sup>trilobate</sup> on the rounded midlobe. *E. inconspicua*, Griff. Botul. 349; Sc. Pl. Asiat. 326; Lindl. in Journ. Linn Soc. Assam, (Manu). Bengal, (J. D. H. Clarke) Demasarian (Pavich) (Kury) Singapore (Wattich) Malacca (Mangay) Dravacore (Nigro) Ceylon as Damballa (Drimen) Habit of E. virens a colour of flower, shorter, flowers much smaller, a stem cylindric with often a clavate tip, — Growing specimens 20259. are marked as from a cluster in some collections from Bohol Island (Philippines) in others. Roots tuberos, hypogaeal. Leaves elliptic-lanceolate. Scape unbranched. Lip longer than broad, side lobes short or 0.

3. E.

Ochreata, Lindl. in Journ. Linn Soc. iii. 24; leaves elliptic acuminate, bracts lanceolate, sepal linear-oblong, petals broadly elliptic acute, lip broadly <sup>24 THURSDAY [24-341]</sup> elliptic, tip rounded, nerves all fimbriate. Daly & fil. Bot. Pl. 265. The Concan & Canara. (Lew. Schell. etc) Stem stout Leaves 3-5; 4-10 in many nerved, sessile. Scape 10-12 in very stout, lobes; rather densely fl. bracts  $\frac{1}{2}$ -1 in; sepals  $\frac{3}{4}$  in, long; spurs small disc. etc.

4. E.

Herbacea, Lindl. Gen. sp. Orchid. 182 in Journ. Linn Soc. iii. 24. bracts very long, flowers large, sepals linear-lanceolate acuminate, petals elliptic or lanceolate obtuse or acute, lip many-nerved, side lobes small rounded, midlobe ovate-oblong, disk with many fimbriate nerves. Daly & fil. Bot. Pl. 265. *E. brachypetala*, Lindl. in Journ. Linn Soc. l.c. *E. albiflora* Edg. m. 93. Limodorum bicolor, Robt. Fr. Ind. iii. 469. Western Himalaya, Ind. Bal. alt. 4-7000 ft. (Royle, Falconer Edgeworth etc) Belizil (Rothm.) Singapore (Clarke) Concan (Daly & fil. l.c.) Stem 4-6 in, rather slender, sheathed. Leaves 6-8 in linear-lanceolate, variable in breadth, many nerved. Scape 2-3 ft. stout, sheath large, acuminate; recess short 8-10 fld; bracts  $\frac{1}{2}$ -2 in; pedicel with ovary  $\frac{1}{2}$ -1 in; sepals  $\frac{1}{2}$  in green; petals white, nerves purple; lip white, nerves yellow; spur very short, obtuse. The flowers seen to be often produced before leaves. Lindl. gives Ceylon, and as the probable by the same error as affects *E. explanata*.



31 Days.

JANUARY, 1918.

JAN. 23 to 27.

5 E.

25 FRIDAY [25-340]  
Conversion of S. Paul.  
Lachnocheila sepals lanceolate acuminate a shorter elliptic petals  
many-nerved, lip narrow pubescent, side lobes short rounded  
middle lobe short, margin waved disk  
densely softly spiny. Upper Burma; 5 Maypongo, Herb. Ed.  
Inher glabrous. Stem 4-6 in. Leaves 2 linear-  
lanceolate, acuminate, scape with the raceme 19 in  
sheath 2-acuminate; raceme 6-8 fld; bracts 2-1 in,  
membranous, linear lanceolate, subspathaceous;  
lateral sepals inserted at the base  
of column; lip shorter than sepals; hypochile obovate  
as long as the column; cheile; spur short,  
cylindric; column rather long.

6 E.

Bracteosa

kind. in well. lat. 73.66; gen. esp. orchid. 180; in gon.  
him soc. iii 23; bracts very long, tip  
rounded, petals broadly obovate very many-nerved  
lip narrowly obovate-oblong, obscurely 3-lobed  
crenulate nervis. E. grandiflora, Lindl.  
gen + spe orchid. 181.

Blasia Hills, alt. 4000 ft (J.D.H.T.)  
Chittagong, (Delhi) Deasurita, alt. 3,500 ft. (Pursh)  
Stem 4-6 in sheath. Leaves 1-3, 10-15 in.

petioles 3-nerved. Scape short, shorter than leaves,  
clothes with long sheath; raceme short, few fld;  
bracts 1-1 1/2 in; sepals 2 in yellow  
lip white & lilac streaked; spur short, obtuse.  
26 SATURDAY [26-339]  
S.N. 7.51, S.S. 4.35.  
Sepals 1 in - broadly lobed, lobes  
is no doubt an error. for grandiflora

7 E.

Alata

Stem 7. Bracts equalling the ovary. Sepals falcate  
lanceolate acuminate 5-6 in, petals elliptic lanceolate  
obtusely strongly 5-nerved, lip narrowly ovate-oblong  
obtusely entire disk with 3 slender nerves.  
Raceme, imperfectly 20-25.  
Sepals 12-14 in; petioles elongate, linear lanceolate  
to 1/2 ft very stout below, sheaths appressed; raceme  
elongate lax fld; bracts 3-1 1/2 in; sepals as long, fleshy,  
lip 8 in; sepals; spur small 20; column short,  
stems, slender; young plants 2 in. deflexed

8 E.

Explanata

kind. from p. 180; bracts shorter than ovary  
sepals elongate, subulate, broader elliptic petals  
5-nerved, lip subpendulous, base narrow with  
spreading nerves, disk with 2 short crenulate lamellae  
at each side, thickened & corded towards the  
intermediate tip. Dipodium scariosum (Herb. Har.)  
Aepid. var. angustatum in a young (Hilleb.) North West India  
Leaves very young at flowering time, narrowed at base  
strong mid 1 or 2 keps. with short broad 2 in long sheath  
Sepals 4-8 in  
bracts 1-1 1/2 in; pedicels with ovary 2/3 in perianth yellow  
a purple-pinkish 3-3/4 in diam. lip sessile, base adnate to lateral  
etc in spat broadly conical, above; column short, an equal  
Hilleb's specimen, being counterparts of Hamilton's his Taylor  
habit is doubtless an error.  
lip broader than long, side lobes short or 0.



30 Days—Mar. 2.

60 Days—April 2.

90 Days—May 1.

JANUARY, 1918.

1st Month.

28 MONDAY [28—337]

Frequency	Plant	Fls.	rodent	Fls.	capsules	plant
1	5 plant, 1 rodent	1	1	2	4	33.33
2		2	1	4	5	25.00
3		3	1	3	3	15.00
4		4	1	2	2	18.18
5		5	1	1	3	15.00
6		6	1	1	2	15.00
7		7	1	1	1	14.29
8		8	1	1	1	14.29
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242</						

G. E.  
Obtusa

Hook. 1; bracts equalling the ovary, sepals lanceolate acute, 7-nerved, broadly elliptic, obtuse, many-nerved petals 5, sessile, lip clawed 3-lobed, side lobes rounded, middle lobe long, disk with 2 lobed calli in the mouth of the spur + 3-5 thickened nerves ending in calli within apex of claw with reniform callus on each side. obtuse, bristly lvs. 8. 1904

North West India; on banks of Rourah river (Royle).  
 Leaves 12 in. narrow elliptic. Sample very tall; racemes  
 elongate, latifid; bracts  $\frac{1}{2}$  in., ovate-lanceolate, acuminate.  
 sepals  $\frac{2}{3}$  in.; petals rather shorter, but much broader, lip as  
 long as sepals, apex entire, entire, placed between  
 lateral lobes, column short, stout. Placed by Lindley in  
 Cryptoperaceae but there is no foot to column. It also occurs in  
 the hills of the Punjab & is also in the Punjab.

10. E.  
Bratensis

hind in form. L. 29 <sup>29</sup> TUESDAY [29-336] <sup>25</sup> fracts shorter than  
ovary, apical oblong obtuse 5 - nerves of petals sub similar  
lip sessile broader than long, side lobes large oblong  
rounded, midlobe small. Sess. circular dist. with  
3 crenate nerves ending in crenate cells on the mid-lobe.  
wh. white. Botib. p. 265) E. haughtiana, 1866. L. 1866 Nov

Leaves few, 10-12 in long & petiole, mostly lanceolate  
gently petiole rather than the lip, broader than long  
side lobes short, of size, rounded, rounded  
dip 2-3 mm at the base of the lip. 2. Red. Aug. 1864  
strongly 3-nerved.  
scape 1-3 ft. black, acute, appressed; bracts  $\frac{1}{4}$ - $\frac{2}{3}$   
ovate lanceolate; sepals  $\frac{3}{4}$  in, fleshy, spur long & thin  
bimaculate, elliptic, turgid. The broad lip is like the  
one. Anthers 2. Stamens 2. Anthers 2. Anthers 2.  
This species of *Asplenium* is common.

Rindl & f. sp. *Pichia*. 185. *f. sp.* 1792. Forest  
• lanceolate rep. lanceolate. 6-8. Petals rather broader, lvs  
broader than long, acute lobes obtuse, midrib  
revolute rounded, dist. 2-lanceolate rep base. Pet. sep.  
f. 1792. Bot. Anal. F. 6246. 20. F. 156. Deep. Am VI: 646

*Dracopis* + Nilghiri Hills (Wight), in the Central  
ascending to 4000 ft. (Shaw, 1851).  
*Dracopis* 2-6 in. for the fruit 2-3 in. 6-10 in.  
petioled, elliptic-lanceolate, 2-3 in. long, 1-2 in. wide, 2-3 in. long  
stems 2-3 in. long, 2-3 in. wide, 2-3 in. long, 2-3 in. wide, 2-3 in. long  
bracts caducous, sepals 2-3 in. long, 2-3 in. wide, 2-3 in. long, 2-3 in. wide, 2-3 in. long  
red stripes; spur 2-lobed green one. Capsule 2 in.



12. E  
mannii

Hook. f. & Th. Pl. Asiatic. WEDNESDAY [30-335] Scape tall, raceme many  
fld, bracts shorter than ovary, sepals oblong-lance  
acute, many-nerved, petals  
many-nerved, lip rhomboidly ovate obtuse broadly  
lobed, disk with branching crests. Bytoperia  
mannii (Reichb. f. in Abh. 1872. 274.  
Upper Assam. (mann).  
Leaves 12 by 4 in narrowly linear lanceolate.  
Scape with raceme 3 ft; sheath appressed, acute  
bracts 4-5 in, ovate lanceolate, sepals 2/3 in  
long lip shorter, spur conical; calyx about, about  
\* \* \* Flowers appearing long before the leaves (I have  
not seen leaves of any species of this subdivision)

13 E. (well, cat 7617; bracts variable, raceme may flower,  
Campestris, sepals  $\frac{1}{2}$ - $\frac{2}{3}$  in. linear-lanceolate acute, 5  
petals oblong-ovate 3-5 nerved, lip curved-obovate  
or oblong, lobes orbicular or oblong crenulate, disk with 3 central  
nerves, lobes small + tubercled or spinular.  
middle lobe small, gen. sp. Orchid. 185. in Jour Lin  
Soc ii 24 Oct 1850. Jan 1851. Cat 7617. E. ramentacea  
with petals small in root. Cat. 7367. 7368. Gen. sp.  
Orchid. 185. in Journal. Jan 25. E. humilis, histus  
Jan 25. E. humilis, histus  
31 THURSDAY [31-334]  
(Ripr. 1850. Bletia dubia (L.) R. & S. L. dubium  
(H. & A. 1850. Bletia dubia (L.) R. & S. L. dubium

*Dipodanthus* *ramentaceum* (Hell.) Wats.  
Plains of the dark granite range at Chittagong  
Stems 6-8 in. stem slender from a deformed  
base; the herb appressed, acute; flowers  
many, subsessile or slightly attached to the  
base of the lip, which is broad, acute or  
emarginate, yellow or green, ripened with pink;  
petals narrower; lip long, sepals, side lobes  
fringed or subacute, apical lobes - slightly purple,  
spur conical, subclavate or subulate, column  
rather slender. Capsule ellipsoid. The lip  
of *E. similis* is rather tubular than spinous.

[illegible]



30 Days—Mar. 6.

60 Days—April 5.

90 Days—May 4.

FEBRUARY, 1918.

2nd Month.

15. E. *decipiens* Griff. in Journ. Linn Soc. iii 2. 1835. FRIDAY [32-333] F 8-12; flowers secund, bracts minute, sepals & petals white, linear hardly, lip obovate concave lobes above the middle, midlobe and the largest margin criped, disk 5-nerved, 10-15 nerved in middle of which 4-5 from fleshy fibres on the midlobe, spur slender & acute. *ancobus* Delant; at Kanchi.  
scape 2-3 ft; root tuberos; sheaths small lance. leaves not seen. Raceme 3-4 in. with ovary 4-5 in. sepals & petals white; spur 1/2 in. "Closely resembles *Pachystoma* of *Eulophia*". I have seen no specimens.
16. E. *densiflora* Lindl. in Journ. Linn Soc. iii 2. 1835. bracts shorter than ovaries, sepals 1-1 1/2 in narrowly oblanceolate acuminate petals narrower, lip midlobe orbicular, disk with 3 lanceolate nerves, 5 or interrupted from the middle towards the apex, spur long slender. *Sikkim Himalayas*, at the foot of hills. J.D.H. Blotau 1-3 ft, post-eriores; tubers lower sheaths obtuse upper acuminate, raceme many-flowered, flowers reflexed very narrow. *Colum* slender the long narrow flowers, see *Chamaetrichum* of this species.
17. E. *burmanica* Hook. f. Scape robust, sheaths stout leaves, raceme many-flowered, bracts filiform squalling ovary sepals 1/2 in oblong obtuse many-nerved petals narrow 3-nerved, lip concave obovate, side lobes short rounded, midlobe suggest ovate, disk with 2-3 crenulate nerves. *Bhamo* (Griffith) *Tubers* on base of scape oblong, scape 14 in sheaths 1 in raceme 4 in; bracts 1/4 in, almost capitate reflexed. pedicel with ovary as long; spur conical *Colum* short. *Rollinia* (glabrous) is a remarkable species of which there is but one very bad specimen with twisted scape; it is possibly *E. maculata*.
18. E. *auriculata* (L.) Sw. *Colum* produced at a foot. *Lateral* sepals inserted on the upper part of the ovary (see also *E. affinis*)
19. E. *auriculata* (L.) Sw. *himal.* in Wall. Cat. 7371; 8 in. upper. *Orchid* 180. Tall, secund elongate many fl'd. bracts ovate flowers large green or purple, sepals linear-oblong acute, petals short oblong many-nerved, lip obovate-oblong obtuse side lobes rounded, midlobe rounded or retuse criped, disk crenate with many crenulate or tubercled nerves. *E. bicolor* (L.) Sw. *Jour. Linn Soc.* (1857) 343. (*Chamaetrichum* Hook. f. 264; Walp. Ann. 11. 647) *Cryptopora* (Sw.) Wight & C. 1690. *Lindl.* in *Bot. Beechey* 11. 31. *Thwaites* *Eulophia* 429. Walp. L. c. 668. *E. phicota* Lindl. in *Jour. Linn Soc.* 362 *Sw.* & *Spe.* *Orchid* 190. *E. andra*, *Reichb.* *Fl. Indica* 1872 286.



## 28 Days.

*C. Gardneri* Shwartzes Run 302. *C. myrocinis* 16  
**FEBRUARY, 1918.** FEB. 1 to 5.  
 Lind in Jan. Soc. III 32. *C. laxiflora*, Siskiyou  
 Rivier & Plicatum, Herb. Hume. ? Wheeler  
 4 MONDAY [35--330] 5. 26.  
 (Last Quarter, 7.52 a.m.)

Tropical Himalaya, from Nepal eastward  
Assam, the Khasi Hills, Manipur, Pegu  
& Tenasserim. <sup>Calcutta</sup>  
Ocean Peninsula: from the Concan southward  
Ceylon; in the Central Province.

Inher. large. Leaves 10-14 in, elliptic-lanceolate,  
 very variable in breadth. Scape 1-3 ft. stout;  
 sheaths appressed; bracts rarely eq. all of them  
 sepals 1 in; mentum rounded or conical. lip  
 shorter than sepals. Capsule 1 1/2 in. fusiform  
 there may be note that the species here has green  
 as the differences in colour of flowers from pale  
 green to white. Sheath is in herb. bright  
 a very fleshy-flowered species or variety  
 (C. Brunneriana, Wight M. 33.) from the Pattee Coll.  
 (Anilghinis) with a root as large as the first  
 the lip with a short  
 pointed, slightly disk; its sepals are green &  
 petals, lip, white.

19. E. Lindl. in Bot. Rec. 1841. Misc 77.  
Squalida.

20. E. *Holocheila* Coll. Himalayas, Sikkim, Darjeeling, India. 1897. 132.  
*Holocheila* (E.) Hook. f. Scapes long, densely many fld.  
 sepals five, linear-oblong, acute undulate, petals  
 side lobes narrow, middle lobe deep  
 crisped. Two lateral nerves forming long  
 call. at the base of the disk with the  
 nerve in the middle. Cyrtopara  
 bicarinate, hind wing venation 17363. Gen. sp. Ord.  
 189. n. Jones. Lin. Soc. III 3. (Griff.)  
 Epipactis (?) bicarinate, Herb. Ham. Cymbidium  
 Griff. Bot. III 343. 209. Dr. Clarke. Siam. T. 320. F. 3 (pollen)  
 Sikkim Himalaya, Darjeeling, India. (Hamilton)  
 Theres Hills. at 2000 ft. (Clarke).  
 Annapurna. Nepal. Upper Burma & Griffith  
 flowering before leafing. Scape 8-30 in  
 stout or slender; sheath inf. bracts all  
 short or long; inflorescence paniculate purplish  
 brown, greenish or yellow, sepals 1½ in long  
 lip longer than sepals. Tip  
 apic. conical obtuse. Flowers often streaked  
 with pink. I have not seen flowers, & Griffith  
 does not describe them; he says flowers  
 are purple-lavender. Lip broad.

4. *E. candida* Hook. f. Flowering with leaves, scape slender, raceme  
 short, many fld. bracts shorter than the ovary,  
 sepals linear-oblong, petals shorter-elliptic obtuse,  
 middle lobe of ovary midlobe large orbicular  
 crumpled, similar to disk as in *E. bracteata*. *Cyrtogon*  
 Rindl in Journ. Lindb. Soc. 11: 31 (in part).  
 Likiep Himalaya, alt. 3-4000 ft. *E. candida*

BL-3710



Flowering before leafing. Leaves 8-18 by 3-3½ in, elliptic-lanceolate, <sup>WEDNESDAY [37-328]</sup> candelate, 5 nerved petiole 6-8 in slender - scape 18-24 in slender rather loose; raceme 3-4 in; bracts ½-½ in; more rigid than in E. bicirinate. flowers 1½ in diam white or greenish. apex conical. Capsule 1 in, narrowly elliptic - ar. of E. bicirinate. Lindley's description is taken from a specimen gathered by myself, a drawing of E. nuda (Dr. Bateman) from which the root, the colour, & the anther are taken.

22. E. *glauca*. Hook. f. tall, robust, flowers very large, sepals oblong-lanceolate finely acuminate, petals broader elliptic many-nerved, lip large & cante, side lobes large rounded, middle orbicular, disk with two small pyiform basal calli & 3 crenate lamellae. *Cyrtopogon* *glauca* in Wall. Cat. 7364. *Pen. v. orchid.* 189. Royle Ill. 370 t. 88; *Quell.* in Gard. Chron. 1870 4407. C. Bullen. *Wright* Sc. 1754; *Wright* Ann. VI. 667. *ipodion flavum* Herb. *Ham.*

Western Tropical Himalaya: from Garwhal. at 4-5000 ft. 5 sepals, 3 petals, 1 anther, 1 pistil. <sup>THURSDAY [38-327]</sup> Flowering before leafing - scape 2-5 ft. as thick as finger or less; raceme 1-2 ft; bracts ½-¾ in; flowers lemon-yellow; sepals 1-1½ in long, variegated in the middle, lip as long as sepals, 3-4 in long, anther with a 2-fid top, and long anterior process; pollen ribbed, apiculate - *Wright* describes the leaves as 2 ft long, lanceolate.

23. E. *macrobullbon*. Parish & Reicht. f. in Trans. Linn. Soc. xxx: 144. Scape robust, raceme densely many-fl. bracts filiform, sepals 2-3 long; petals rather tubular; lip shorter than sepals, apex conic obtuse, anther with a produced 2-fid top, pollinia oblong - Parish describes the leaves as oblong acuminate (now black elliptic-lanceolate), sepals petals brown, lip yellow, spotted. The sketching drawing represents a stem as thick as the middle finger with sessile obovate leaves 1-2 ft. long, purple beneath & on the margin. a scape as thick as a goose-quill, dark purple, as do the flowers, raceme 12 in, many fl. bracts very slender, as long as the ovary, sepals 2½ in long & petals violet-purple, lip.

24. E. *macrorhizon*. Hook. f. Scape robust, raceme lax-fl. bracts long slender, sepals lanceolate acuminate & short obtuse petals many-nerved, lip broad obtruse 3-lobed & 3-lobed, 3 long & 3 short nerves tubular & 3 disk of anther & 3 side lobes rough, apex conical. *Sikkim Himalaya*; at Ryang alt. 2000 ft. (King in the *Rootstock* elongate, as thick as the thumb, ringed, leaves not seen. Scape 8-12 in, sheaths 3-4 loose, obtuse; raceme 2-4 in, bracts 2-¾ in about as long as the



28 Days.

FEBRUARY, 1918.

FEB. 6 to 10.

8 FRIDAY [39-326]  
Half Quarter Day.

25 E.

*Danguinea*. flowers large, sepals ovate-lanceolate acuminate, petals short elliptic apiculate many nerved, lip short, side lobes rounded, midlobe orbicular or ovate, disk with many crenulate nerves. *Cyrtopera sanguinea* Lindl in Journ. Linn Soc III 32. Bot. Mag 6161. Likien a *Blotobudina* alt. 5000 ft. (main). 1200 ft. Flowering before leafing. Scape 6-10 in stout, sheaths loose. Raceme 6-12 fld. bracts slender, about equalling the ovary; diam; disk red purplish or brown; lip white, pink or green; spur large, broad, obtuse; petals with an apiculate notch at apex; top of anther obviously notched, pollinia ovoid. Leaves unknown. (C. R. R. Fa. Thw. Fr. m. 1918)

26. E

*Andamanensis* Recl. f. in *Flora* 1872. 276. raceme lax-fld, bracts short, sepals linear-lanceolate 3-5 nerved acuminate, petals rather broader obtuse 3 nerved side lobes of lip obtuse, midlobe large broadly clavate orbicular crisped retuse, disk with the 3 median nerves thickened between the side lobes all other nerves thick diverging and much branched. 9 SATURDAY [40-325]  
S.S. 7.20, P.S. 5.0.  
*Denasserim*: at Moulinein, (Paris) Andaman Is. Stem at base tuberos, with thick roots. Leaves short during flowering, linear-lanceolate. Scape 1-2 ft; sheaths short; bracts shorter than the pedicels; sepals 2 in long; lip shorter than sepals, white with green edges and nerves; spur conic, obtuse; anther 2-lobed. This much resembles *E. virens*, but the leaves are much broader, and the column produced into a foot. Species unknown to me.

*Cyrtopera* Ruffa, Thwaites, *Ann.* 302; rootstock tuberos, leaves not seen, scape 2 ft, reddish, sheaths 3 distant, bracts narrowly lanceolate equalling ovary, fls rufous 2 in diam, sepals oblong-lanceolate acute rather longer than the obovate acute petals, lip crenulate nerves within pale, side lobes obtuse midlobe as long rounded apiculate, spur about obtuse, column linear slightly contracted in the middle. Capsule 2 1/2 in long. O. Ceylon at Hantani alt. 3000 ft - (Thwaites C.P. 3566).

*E. atro-virens*, Lindl. Gen. & spec. orchid 103 described by Lindley from a drawing made for Wallich in Calcutta garden, whence supposed to be a natural of India, is a cultivated species. *Monophylla*. Spens. novae in Baker's *Flora* of Australia Page 360 (where erroneously confounded with the Brazilian *E. maculata*)



● *New Moon, 10.5 a.m.*

single and bumper of road all around. Pine needles. Very abundant usually.

In 1922 a one hour, faint meteor at 76 km was seen between 25<sup>th</sup> to September 9<sup>th</sup> & continued a few.

in 1922 a one hour lesson - dec. 76 to 77 on pp. 25<sup>74</sup> to 26<sup>74</sup> + continued in 1922.

I fail to recognise the following *Eulophias*  
described in *Siphistia rotunda* Vol III, p. 162. &  
De F. . . . . I 285. p. 2. p. 263 & I 285 p. 2. p. 266

[illegible]

12 TUESDAY [43—322]

*Shrove Tuesday*

Jungle and hampons, gardens etc. all over the Peninsula. Very abundant generally.

At intervals of ~~the~~ 3-6 weeks throughout the year. Flowers are open for one day,

opening at sunrise and fading in the afternoon. The flower has strong sweet scent very

attractive to bees. Cannot be fertilized by pollen from the flowers of same plant.

Flowers	Pollinia removed	Pollinia on stigma (2 pm)	Capsules
126	117	75	0
Alone taken over 4 flowerings		Plants isolated fully	1
Detail of alone	4.9.26	33	32
	2.10.25	30	22
		25	16
		25	25
	7.7.26	38	38
In addition	10.5.26	42	3
			1
			0

Rainy day, no bees.

In addition. 10.5 26 42 3 1 0 Raining day, no bus.

Only a small percentage of the flowers produce capsules under normal conditions, but a high percentage of the seeds produce plants, many of which have a fourth or the tree. Some generally the old stems which are past flowering which produce such buds, or an unhealthy plant.



28 Days.

FEBRUARY, 1918.

FEB. 11 to 14.

D. ...

13 WEDNESDAY [44-321]

Ash Wednesday.

40. *Cymbidium*. (Swartz)

rarely terrestrial; stem very stout, rarely elongate  
pseudobulbous; roots thick. Leaves very long,  
narrow & concave, rarely short. Scape long.

Red; flowers often large in suberect or drooping  
racemes. Sepals & petals free, erect or spreading.

Lip sessile at the base of the column & ...  
upwards, base concave, side lobes erect, midlobe recurved,  
all with usually 2 pubescent median ridges. Column  
long, for O, anther 1- or imperfectly 2- celled;

ovoid or 4, subglobose or  
pyramidal, sessile on the broad tip or ...

... tropical & subtropical, on the  
mountains of Asia, with a few in Australia.

\* Leaves rudimentary or O. as.

7. C

*Macrorhizon*, Lindl. f. Sp. Orchid. 162; terrestrial, root stock  
... bracts narrow membranous.

D. ...

14 THURSDAY [45-320]

Habitat.

In ...

Horming season.

Short racemes, 2-8 flowered. Rain intervals. Racemes last about 3-5 days.

May, July.

Have not flowered for since 1922.

I have 2 plants which are quite very healthy.

N. W. India (Doyne: Dabotaj Khazin Hill. 5-6000 ft.

*Macrorhizon* (Swartz: C. ...)

Rootstock as thick as a goose-quill, branched.

Scape very short, with the raceme 6-9 in, ascending  
6-8 fld; basal sheaths short, or elongating to 2 in.

intensely subuliciform; bracts 1/2-2 in, narrow, membranous;

pedicel with ... flower 1 1/2-2 in, broad, sepals

linear, lanceolate, acuminate. rather broader petals

white or pale yellowish with pink streaks; lip white

spotted crimson ... lobes, ... midlobe ovate

obtusely, disk with 2 thick ...

anther papillose; pollinia 4, subcylindrical - a

species & ...

... lip as

... 6000 ft. J.D.H.

Rootstock very stout. Scape with many obtuse basal

sheaths, 2-3 in. long, ... higher up 4 in. long;

raceme 4-5 in. more or less decurved, rather stout

10-15 fld; bracts 1/2 in, pedicel with ovary 1/2-3/4 in, dorsal

sepal linear-oblong obtuse; lateral lanceolate, acute

subuliciform; petals elliptic, acute; lip as ...











15 FRIDAY [46—319]

*D. multisetigerus*

172-173

100

600-4-10-11

11. 10. 1915

Flowers usually in pairs, but sometimes 3 or 4 together. Long about 12 days.

Rhombic-ovate, mid. lobes obscure rounded, narrowed into the wing. T. mid. lobe disk without ridges, lined with two obscure rounded calli. A very distinct species overlooked by Lindley when studying my sucking aichids & misidentified with *T. aloifolium*. Leaves elliptic-lanceolate.

3. *lanceifolium*

Hosh. Epot. II. T. 51; leaves long petioled plicate,  
 shorter than leaves, few ped. bracts lanceolate  
 shorter than ovary, flowers long-petioled, disk  
 glabrous lip with two median lamellae between  
 the side lobes. Hindl. Gen. Orchid. 1641 in journal  
 Lin. Soc. III 30; Walp. Cat. 7351; Radd. Bot. Cat. 927  
 C. fibroni, Paxton Arb. Forest. III. 618. fig. 301. Walp. Ann. VI. 122  
 C. javanicum, Blume Bijdr. 380; Hindl. Lc. 170. fig. 1.  
 plant. asiat. T. 300. fig. 1.  
 subtropical Himalaya; from Nepal to China. Khasia Hill  
 alt. 4-6000 ft. (fig. 1) alt. Perak. alt. 2-4000 ft.  
 Benluchin (2) Bishit, Java, China, Japan, Japan.  
 stem ~~erect~~ fleshy, frufurous sheaths ovate-lanceol  
 acuminate; roots ~~very~~ thick spongy. Leaves

16 SATURDAY [47-318]  
S.R. 7.16, S.S. 5.13.

W. J. L. S. L.

the trees near the sea.

Following period

Ranunc. flower during February, March & April. A raceme of 145 flowers commenced to bloom on March 15<sup>th</sup> 1922. By the 22<sup>nd</sup> all the flowers were open and by April 10<sup>th</sup> had withered. Another raceme of 34 flowers commenced flowering on March 17<sup>th</sup> was in full flower on the 25<sup>th</sup> and over on April 6<sup>th</sup>.

Utricle, petals slender, sometimes by. Scape  
reddish, 6-8 fld; flowers 1-2 in diameter, sepals white  
yellowish or greenish, lanceolate, pointed; petals  
rather broader, white with pink inside, lip white spotted  
with red-purple, side lobes narrow, midlobe oval obtuse.

4. *C. wallichii* (Roxb.) DC. 15457; leaves short petioled very  
 turgid, coriaceous, orange with veins larger than leaves,  
 long petioled, bracts lanceolate, shorter than ovary, flower  
 long petioled; lig. white, yellowish. 1880 on the  
 dist. between side lobes, narrow, setting  
 Deccan; on Moollee hill, alt 6000 ft (Burm.)  
 Burma; on Siam mountains alt 10000 ft.

Pseudobulb 1-1.5 in, terigialy ovoid, top contracted.  
Leaves 3-5 in, recurved, petiole nearly 1 in. base  
 suberect, with the raceme 6-8 in, 3-5 fld: flowers  
 few; bracts small, ovate-lanceolate; pedicel with ovary  
 1-1½ in. flower <sup>17 Sunday [48-317]</sup> <sub>1st in. Early - 2nd in. Middle - 3rd in. Late</sub> sepals linear,  
 subacute, dull yellow-green; petals subsimilar;  
 lip marooned at the base, white spotted red, side  
 lobes rounded-erect, midlobe oblong, tip rounded.  
 apiculate; labellum 3-lobed; filaments 3-angular, gland  
 blackish, triangularly obtuse above, sides acute.



First Quarter, 0.57 a.m.

*[Faint handwritten text]*

Small, brown, poly, l. Can. 3 mm.

$$1 + 2 + 3 + \dots + n = \frac{n(n+1)}{2}$$

Habitat.

Paula Dawn, Phoenix

19 TUESDAY [50—315]

found growing on Rumex stems

Very good. Always a good experience + new friends

Flowering season

all the year round.

Fertilization.

The structure of the flowers of this species presents some exceedingly interesting characters.

[illegible]

D. Pandaneti possesses all three anthers, but ~~whereas~~ the upper anther is complete with ligaments and is pollinated. In ~~contrast~~ all, the lateral anthers have been so far found to consist of one part only with lig. pollinated.

the most remarkable feature is, however, the fact that the ovule is self-fertilized by  
itself, not by the pollenia from the upper anther but by those of the incomplete lateral one, and

the progress of fertilization appears to be well advanced before the opening of the flower.

The stigma matures early, and as the lateral pollinia ripen it they are drawn across the surface of the stigma by means of its exerting force, fertilization ensues. The pollinia

and by the time the supper was thus thoroughly completed the new <sup>or revised</sup> ~~revised~~ employment and participation.

Abortion of the latent culture appears to be checked and the probability is that the upper arches in course of time will waste away through continual disuse.

While appears to be a revision towards an original ancestral type in conformity with  
 several of other the orders of Monocotyledonous plants.







28 Days.

FEBRUARY, 1918.

FEB. 20 to 24.

22 FRIDAY [53-312]  
Ember Day.

Does this belong to *C. crassifolia* with pale flowers - chiefly distinguished from *aurifolia* chiefly by the lamellae of the lip of former being interrupted clavate - rolled behind of the latter continuous approximate confluent as their tips. Thwaites gives *aurifolia* as a native of Beylon (Ceylon) but as he cites Wright's do no doubt *bicolor* is intended. Lindley's *aurifolia* of Journ. Linn Soc. May. includes this *bicolor* & *sikkimensis*. Reichenbach's description of *C. aurifolia* is that of *aurifolia* of which there are specimens in Mann's Herb. (Lindley sent to me) as to his habitat of 'Obres' our man informs me he knows of no such place.

7. *C. bicolor* Lindl. Gen. & Sp. 164, character of *C. aurifolia* but larger than the hypochile ovate-oblong narrower than the tip. *C. aurifolia*, Wight & Do. T. 1687-1688, also a file Bot. Ind. 266. Thwaites Journ 308. *C. erectum*, Wight & Do. 1753. *Epilobium aurifolia*, Bot. Mag. T. 387.

8. *C. bicolor* - Pennant for the Conc. South India. *C. aurifolia* - Pennant, on this see under *C. aurifolia* from which Lindley distinguished it chiefly by the ovate lanceolate base of the lip a stiff main curved clavate

23 SATURDAY [54-311]  
Ember Day, SS 7.2, SS 5.26.

9. *C. bicolor* - Lindl. Gen. & Sp. 164, character of *C. aurifolia* but larger than the hypochile ovate-oblong narrower than the tip. *C. aurifolia*, Wight & Do. T. 1687-1688, also a file Bot. Ind. 266. Thwaites Journ 308. *C. erectum*, Wight & Do. 1753. *Epilobium aurifolia*, Bot. Mag. T. 387. *C. bicolor* - Pennant for the Conc. South India. *C. aurifolia* - Pennant, on this see under *C. aurifolia* from which Lindley distinguished it chiefly by the ovate lanceolate base of the lip a stiff main curved clavate

10. *C. bicolor* - Lindl. Gen. & Sp. 164, character of *C. aurifolia* but larger than the hypochile ovate-oblong narrower than the tip. *C. aurifolia*, Wight & Do. T. 1687-1688, also a file Bot. Ind. 266. Thwaites Journ 308. *C. erectum*, Wight & Do. 1753. *Epilobium aurifolia*, Bot. Mag. T. 387. *C. bicolor* - Pennant for the Conc. South India. *C. aurifolia* - Pennant, on this see under *C. aurifolia* from which Lindley distinguished it chiefly by the ovate lanceolate base of the lip a stiff main curved clavate

24 Sunday [55-310]  
Ember Day, SS 7.2, SS 5.26.

11. *C. bicolor* - Lindl. Gen. & Sp. 164, character of *C. aurifolia* but larger than the hypochile ovate-oblong narrower than the tip. *C. aurifolia*, Wight & Do. T. 1687-1688, also a file Bot. Ind. 266. Thwaites Journ 308. *C. erectum*, Wight & Do. 1753. *Epilobium aurifolia*, Bot. Mag. T. 387. *C. bicolor* - Pennant for the Conc. South India. *C. aurifolia* - Pennant, on this see under *C. aurifolia* from which Lindley distinguished it chiefly by the ovate lanceolate base of the lip a stiff main curved clavate



25 MONDAY [56-309]  
 O Full Moon, 9.35 p.m.

10. C.  
 elburneum

Lindl. in Bot. Rep. 1847. T. 67. in Jon. Lin. Soc.  
 iii 28; scape slender, 2-3 ft. Sheath to  
 top flowers 4-5 in diam, white hypochil  
 3-5 grooved pubescent  
 Golden ridge. Bot. Mag. T. 5126; Bot. Mag. Bot  
 XV. T. 145; Wimmer. Sel. Orchid. T. 21, 1880  
 T. 16. Gartn. 1880, T. 155. Orchid. 1882-297.  
 Wein. Ill. Gartn. 1887. T. 7-8. Gard. Chron. 1882.  
 1-496. F. 884, 1177 F. 17. C. syriacodorum  
 Griff. Bot. iii 338.

Eastern Himalaya Nepal. (Bot. 1200)  
 Sikkim alt. 1000 ft. (Gard. Chron. 1882)  
 alt. 5000 ft. (Griff. Bot. etc).  
 Leaves 12-24. ly 2-3 in acute or acutif  
 2 ft. Scape 8-12 in; sheath squarish, erect  
 lanceolate, finely serrulate, bracts acuminate  
 pedicel with ovary 1 1/2 x 2 in flowers very odorous  
 sepals very variable in breadth petals sub-  
 pubescent, middle lobes of lip narrow, obtuse  
 middle lobe small, retuse, crested, dark  
 yellow.

Var. Perichia leaves broadly elliptical with dark  
 purple veins. C. Perichia Reichb. f. in trans  
 him. Bot. 144. Var. Orchid. 1855. T. 224 (very  
 broad). T. 338, 566, 1878,  
 1177. Wimmer. orchid. alt. 2500 ft. in  
 on Rat-tong, alt. 5000 ft. Reichb. f. in trans  
 distinguishes this by the color of lip having no  
 white line only the spots on lip; the acute  
 retuse angle of the petal. The sepals  
 spotted with white narrower than in Wimmer's  
 figure.

Var. Willinghamiana, Reichb. f. in Gard. Chron. 1881. 1530  
 has the mid-lobe of lip light purple &  
 white light red - gold.

Var. Wuyana leaves 2 ft. ly 1/4 in. corymb beneath,  
 flowers yellowish with purple streaks.  
 C. Wuyana Reichb. f. in Gard. Chron. 1869. 710.  
 Assam (Hort. Beng.) - I have not seen this.

11. C.  
 grandiflorum

Griff. Bot. iii 342. Bot. Mag. T. 321; leaves 8-24  
 ly 2-3 in Scape very robust-decumbent, sheath  
 lax, raceme 6-12 fls. flowers 3-4 in diam sepals  
 petals oblong-lanceolate acute green, lip yellowish  
 pubescent & ciliate middle lobe large suborbicular, rounded  
 emarginate blotched or speckled with red. C. hookerianum  
 Reichb. f. in Gard. Chron. 1866. 7. Belim in Bot. Mag. T. 5374  
 C. giganteum in Gard. Lindl. in Jon. Lin. Soc. iii 29.  
 Cymbidium sp. Griff. This note is not correct.



27 WEDNESDAY [58—307]

12. C. Wal. Cov. 7355; leaves 1-2 ft. by 2, -1½ in., lanceolate acuminate, scapes very robust. 6-12 fld,  
giganteum lanceolate acuminate, scapes very robust. 6-12 fld,  
petals yellowish-lanceolate, white green streaked red  
all over, middle large orbicular waved. Chitt. Bent  
sp. Orch. 1843; Ser. Orchid T. 4. P. 104. T. 4844 - Paxl.  
Mag. Bot. 241 & 31. Gard. II. 14. F. 143 (flower).  
T. 34. fiff. 2nd. III 341; Welp. Ann. 626. Tridiopsis  
gigantes Blue Orchid, Archip. Ind. 91. T. 26. Limnodyn  
longifolium, 2c. Hamilt. (fide Lindl.).  
Tropical Himalaya; from 1000 to 4000 ft  
4000 ft eastward to Rhodan or the Pharis at 6.  
4-5 ft. habit of C. grandiflora  
nearly as broad, but flowers smaller + diff. colored  
Bluish purple green Tridiopsis on the protuberant  
base of the calyx forming a small red character  
in drawings of dried specimens. There are drawings of  
several varieties of this herb. New Calcutta of  
varying much in the depth of coloring of  
various colors as very strong violet & purple on the  
breast leaf while, which has a hairy  
ridge, bottom of disciform & again meeting at the

28 THURSDAY [59—306]

*Rowlandia*, Reiche, F. in Gard. Chron. 1887, 1684; leaves  
2-3 ft by 1/2, 1/3 in, finely serrulate, the lobes of  
lvs pale yellow green, midrib dark purple with  
golden margins. *C. Rowlandia*, Reiche, F. in Gard. Chron.  
1879, 322 & 1885, F. 56, Gard. Mag. N. S. 353,  
Reichen's Garten, 1885, 73. *Rowlandia*, 1882, 321, 1885, 45.  
*Burmannia*, Reiche (Hort. Low) - Reiche's distinct species;  
the leaves are more like those of *B. longifolia*.  
The sacculus within 5 ft in length. The very numerous  
flowers are in a colony. The lvs. are beneath.

Don. Prodr. 36; leaves 2-3 ft. - 2-3 in. narrow  
linear finely acuminate. scape sub-erect or  
de-curved many fld. flowers in panicle, sepals  
& petals linear-oblong or lanceolate. corolla greenish  
shades red & purple. lip yellowish with red  
ciliate & mottled. broadly ovate or orbicular  
white or yellowish spotted red. Lindl. Gen. & Sp.  
Orchid 163; in Gen. Pl. III. 39; Reicht F. re-  
f. in. obs. 1874. C. erythraea Lindl. L. 30  
Simodora, a good specimen. Bert. Ham (ex Lindl. gen. exp.)  
Sulthorn, Himalayas, alt. 6000 ft. from human  
(Sikkim) Eastward, there is a common  
Nerium. C. erythraea but leaves very narrow  
flowers smaller coloring different. The lip is  
similar shape. in a strong purple nerves & pulchra  
ridges. Lindl. C. erythraea is founded on a train  
of mine of the flowers & fruit of a plant gathered in Sikkim



30 Days—April 3.

60 Days—May 3.

90 Days—June 1.

MARCH, 1918.

3rd Month.

but of which I preserved no specimen; it has a small golden mouth and the very narrow lips, but is otherwise does not differ from *olivacea*.

FRIDAY [60—305]

*S. David.*

the Regeneration of the Republic of the United States

to which the specimen of *erythrocum* in  
Lindley's *Barb.* certainly belongs.

↑ ↑

Dr. C. M. Smith or C. M. Smith

114. *C. wal. Cat. 7353; leaves 3 ft. by  $\frac{1}{3}$  -  $\frac{1}{2}$  in*  
*cyperifolium*, *or exceeding the ovary, sepals & petals linear*  
*lanceolate acute pale green & yellow streaked red*  
*lip narrow glabrous, white spotted red*  
*hndl. gen & sp. orchid. 163. young in Nov. 11 28*  
*hndl. gen & sp. orchid 162.*

hindl. gen & sp. orchid 162.

*C. viridiflorum*, Griseb. Sim. notes 125-30 454.

*Cynorchis (?) Wallichii* Blume. Orchid Archipel.

92. *Linum longifolium*, Royb. Fl. Ind. <sup>468</sup><sub>117</sub>

Sub-tropical Diptera; 1st larval at 5000

Chlorophyllum, extractum, 20. Chlorophyllum, naga.

amongst hills, along 500-6500 ft.  
leaves large, open petioled. Scape shorter  
than the leaves, slender; sheath  $\frac{1}{2}$  - 2 in. distant  
flowers 4-6 in. distant, sweet-scented; lip pubescent  
with small, broad lobes.

SATURDAY [61-304]

S.R. 6.48, S.S. 538.

each plant of *gl.* + *small* placed face to face. *St.*  
Roxburghian fig. of *h. longiflorum* from the  
Ithaca hills, agrees in every respect except that  
the flowers are in *small* in *decid.*

The *Spora Indica* is having a different bulb.

calcareous lip; in the drawing of the bulb is

The Gaudy Heron is common, there is no tree

29 Apr 1951, the sheets which are the drawing are

...habitu.

Platy. present. 1/2 lb. in 1/2 lb. - 1/2 lb. 15

his C. H. <sup>1</sup> <sup>2</sup> <sup>3</sup> <sup>4</sup> <sup>5</sup> <sup>6</sup> <sup>7</sup> <sup>8</sup> <sup>9</sup> <sup>10</sup> <sup>11</sup> <sup>12</sup> <sup>13</sup> <sup>14</sup> <sup>15</sup> <sup>16</sup> <sup>17</sup> <sup>18</sup> <sup>19</sup> <sup>20</sup> <sup>21</sup> <sup>22</sup> <sup>23</sup> <sup>24</sup> <sup>25</sup> <sup>26</sup> <sup>27</sup> <sup>28</sup> <sup>29</sup> <sup>30</sup> <sup>31</sup> <sup>32</sup> <sup>33</sup> <sup>34</sup> <sup>35</sup> <sup>36</sup> <sup>37</sup> <sup>38</sup> <sup>39</sup> <sup>40</sup> <sup>41</sup> <sup>42</sup> <sup>43</sup> <sup>44</sup> <sup>45</sup> <sup>46</sup> <sup>47</sup> <sup>48</sup> <sup>49</sup> <sup>50</sup> <sup>51</sup> <sup>52</sup> <sup>53</sup> <sup>54</sup> <sup>55</sup> <sup>56</sup> <sup>57</sup> <sup>58</sup> <sup>59</sup> <sup>60</sup> <sup>61</sup> <sup>62</sup> <sup>63</sup> <sup>64</sup> <sup>65</sup> <sup>66</sup> <sup>67</sup> <sup>68</sup> <sup>69</sup> <sup>70</sup> <sup>71</sup> <sup>72</sup> <sup>73</sup> <sup>74</sup> <sup>75</sup> <sup>76</sup> <sup>77</sup> <sup>78</sup> <sup>79</sup> <sup>80</sup> <sup>81</sup> <sup>82</sup> <sup>83</sup> <sup>84</sup> <sup>85</sup> <sup>86</sup> <sup>87</sup> <sup>88</sup> <sup>89</sup> <sup>90</sup> <sup>91</sup> <sup>92</sup> <sup>93</sup> <sup>94</sup> <sup>95</sup> <sup>96</sup> <sup>97</sup> <sup>98</sup> <sup>99</sup> <sup>100</sup> <sup>101</sup> <sup>102</sup> <sup>103</sup> <sup>104</sup> <sup>105</sup> <sup>106</sup> <sup>107</sup> <sup>108</sup> <sup>109</sup> <sup>110</sup> <sup>111</sup> <sup>112</sup> <sup>113</sup> <sup>114</sup> <sup>115</sup> <sup>116</sup> <sup>117</sup> <sup>118</sup> <sup>119</sup> <sup>120</sup> <sup>121</sup> <sup>122</sup> <sup>123</sup> <sup>124</sup> <sup>125</sup> <sup>126</sup> <sup>127</sup> <sup>128</sup> <sup>129</sup> <sup>130</sup> <sup>131</sup> <sup>132</sup> <sup>133</sup> <sup>134</sup> <sup>135</sup> <sup>136</sup> <sup>137</sup> <sup>138</sup> <sup>139</sup> <sup>140</sup> <sup>141</sup> <sup>142</sup> <sup>143</sup> <sup>144</sup> <sup>145</sup> <sup>146</sup> <sup>147</sup> <sup>148</sup> <sup>149</sup> <sup>150</sup> <sup>151</sup> <sup>152</sup> <sup>153</sup> <sup>154</sup> <sup>155</sup> <sup>156</sup> <sup>157</sup> <sup>158</sup> <sup>159</sup> <sup>160</sup> <sup>161</sup> <sup>162</sup> <sup>163</sup> <sup>164</sup> <sup>165</sup> <sup>166</sup> <sup>167</sup> <sup>168</sup> <sup>169</sup> <sup>170</sup> <sup>171</sup> <sup>172</sup> <sup>173</sup> <sup>174</sup> <sup>175</sup> <sup>176</sup> <sup>177</sup> <sup>178</sup> <sup>179</sup> <sup>180</sup> <sup>181</sup> <sup>182</sup> <sup>183</sup> <sup>184</sup> <sup>185</sup> <sup>186</sup> <sup>187</sup> <sup>188</sup> <sup>189</sup> <sup>190</sup> <sup>191</sup> <sup>192</sup> <sup>193</sup> <sup>194</sup> <sup>195</sup> <sup>196</sup> <sup>197</sup> <sup>198</sup> <sup>199</sup> <sup>200</sup> <sup>201</sup> <sup>202</sup> <sup>203</sup> <sup>204</sup> <sup>205</sup> <sup>206</sup> <sup>207</sup> <sup>208</sup> <sup>209</sup> <sup>210</sup> <sup>211</sup> <sup>212</sup> <sup>213</sup> <sup>214</sup> <sup>215</sup> <sup>216</sup> <sup>217</sup> <sup>218</sup> <sup>219</sup> <sup>220</sup> <sup>221</sup> <sup>222</sup> <sup>223</sup> <sup>224</sup> <sup>225</sup> <sup>226</sup> <sup>227</sup> <sup>228</sup> <sup>229</sup> <sup>230</sup> <sup>231</sup> <sup>232</sup> <sup>233</sup> <sup>234</sup> <sup>235</sup> <sup>236</sup> <sup>237</sup> <sup>238</sup> <sup>239</sup> <sup>240</sup> <sup>241</sup> <sup>242</sup> <sup>243</sup> <sup>244</sup> <sup>245</sup> <sup>246</sup> <sup>247</sup> <sup>248</sup> <sup>249</sup> <sup>250</sup> <sup>251</sup> <sup>252</sup> <sup>253</sup> <sup>254</sup> <sup>255</sup> <sup>256</sup> <sup>257</sup> <sup>258</sup> <sup>259</sup> <sup>260</sup> <sup>261</sup> <sup>262</sup> <sup>263</sup> <sup>264</sup> <sup>265</sup> <sup>266</sup> <sup>267</sup> <sup>268</sup> <sup>269</sup> <sup>270</sup> <sup>271</sup> <sup>272</sup> <sup>273</sup> <sup>274</sup> <sup>275</sup> <sup>276</sup> <sup>277</sup> <sup>278</sup> <sup>279</sup> <sup>280</sup> <sup>281</sup> <sup>282</sup> <sup>283</sup> <sup>284</sup> <sup>285</sup> <sup>286</sup> <sup>287</sup> <sup>288</sup> <sup>289</sup> <sup>290</sup> <sup>291</sup> <sup>292</sup> <sup>293</sup> <sup>294</sup> <sup>295</sup> <sup>296</sup> <sup>297</sup> <sup>298</sup> <sup>299</sup> <sup>300</sup> <sup>301</sup> <sup>302</sup> <sup>303</sup> <sup>304</sup> <sup>305</sup> <sup>306</sup> <sup>307</sup> <sup>308</sup> <sup>309</sup> <sup>310</sup> <sup>311</sup> <sup>312</sup> <sup>313</sup> <sup>314</sup> <sup>315</sup> <sup>316</sup> <sup>317</sup> <sup>318</sup> <sup>319</sup> <sup>320</sup> <sup>321</sup> <sup>322</sup> <sup>323</sup> <sup>324</sup> <sup>325</sup> <sup>326</sup> <sup>327</sup> <sup>328</sup> <sup>329</sup> <sup>330</sup> <sup>331</sup> <sup>332</sup> <sup>333</sup> <sup>334</sup> <sup>335</sup> <sup>336</sup> <sup>337</sup> <sup>338</sup> <sup>339</sup> <sup>340</sup> <sup>341</sup> <sup>342</sup> <sup>343</sup> <sup>344</sup> <sup>345</sup> <sup>346</sup> <sup>347</sup> <sup>348</sup> <sup>349</sup> <sup>350</sup> <sup>351</sup> <sup>352</sup> <sup>353</sup> <sup>354</sup> <sup>355</sup> <sup>356</sup> <sup>357</sup> <sup>358</sup> <sup>359</sup> <sup>360</sup> <sup>361</sup> <sup>362</sup> <sup>363</sup> <sup>364</sup> <sup>365</sup> <sup>366</sup> <sup>367</sup> <sup>368</sup> <sup>369</sup> <sup>370</sup> <sup>371</sup> <sup>372</sup> <sup>373</sup> <sup>374</sup> <sup>375</sup> <sup>376</sup> <sup>377</sup> <sup>378</sup> <sup>379</sup> <sup>380</sup> <sup>381</sup> <sup>382</sup> <sup>383</sup> <sup>384</sup> <sup>385</sup> <sup>386</sup> <sup>387</sup> <sup>388</sup> <sup>389</sup> <sup>390</sup> <sup>391</sup> <sup>392</sup> <sup>393</sup> <sup>394</sup> <sup>395</sup> <sup>396</sup> <sup>397</sup> <sup>398</sup> <sup>399</sup> <sup>400</sup> <sup>401</sup> <sup>402</sup> <sup>403</sup> <sup>404</sup> <sup>405</sup> <sup>406</sup> <sup>407</sup> <sup>408</sup> <sup>409</sup> <sup>410</sup> <sup>411</sup> <sup>412</sup> <sup>413</sup> <sup>414</sup> <sup>415</sup> <sup>416</sup> <sup>417</sup> <sup>418</sup> <sup>419</sup> <sup>420</sup> <sup>421</sup> <sup>422</sup> <sup>423</sup> <sup>424</sup> <sup>425</sup> <sup>426</sup> <sup>427</sup> <sup>428</sup> <sup>429</sup> <sup>430</sup> <sup>431</sup> <sup>432</sup> <sup>433</sup> <sup>434</sup> <sup>435</sup> <sup>436</sup> <sup>437</sup> <sup>438</sup> <sup>439</sup> <sup>440</sup> <sup>441</sup> <sup>442</sup> <sup>443</sup> <sup>444</sup> <sup>445</sup> <sup>446</sup> <sup>447</sup> <sup>448</sup> <sup>449</sup> <sup>450</sup> <sup>451</sup> <sup>452</sup> <sup>453</sup> <sup>454</sup> <sup>455</sup> <sup>456</sup> <sup>457</sup> <sup>458</sup> <sup>459</sup> <sup>460</sup> <sup>461</sup> <sup>462</sup> <sup>463</sup> <sup>464</sup> <sup>465</sup> <sup>466</sup>

probably through the same error, as affects other

plants attributed by him to that country collect

swartz in Nov. Afr. spec. v. 77; leaves 2-3 fr,

by 3/3 1/2, sessile or petioled, lanceolate

bract shorter than the ovary, sepals & petals lanceolate  
acute, green, thickened red lip, duration of 13-15

scale green, cracked red, tip scabrous, white or yellowish. Sp. 1, brown to red. Wild sp. H.V. 112.

Phil. Sch. 162, Reg. 4576 (v. ext. 162)

Not May 1756. 3. Sunday [62-303], 3rd in Lent.

*Sonchus oleraceus* L. Sp. Pl. 90  
Linn. Bot. Edin. 1758. T. 2. p. 31. f. 1. Pers. Syn.

1938. 22. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829. 830. 831. 832. 833. 834. 835. 836. 837. 838. 839.

*Silene hirsuta*. - intermedia. 1897.

9-10-11 T.T. etc Ceylon; in the Central Province

[illegible]

1875



31 Days.

MARCH, 1918.

MAR. 1 to 5.

The Phlox plant agrees very well with the figure, which <sup>4</sup> MONDAY [63-302] shows the leaves as narrowed into a long petiole. In the Bot. Rep. the leaves are only a spat. long & quite sessile. The Bot. mag. represents a very small plant with spotted lip. The Cypripedium has lanceolate bracts. The Sikkim specimen has sessile leaves, many of them with white lip, with pale brown hairs along the margin. In the Bot. Rep. figure it has spots. I doubt if it is a Cypripedium. I think it would combine them.

Unpublished & excluded species.

- C. *Andrieuxii* Lindl. Cat. 1863 (name only, ex. Ill. Hort. ex VIII (1881) 95)
- C. *Cernuum* Griff. Bot. III 339. is probably a *Cypripedium*
- C. *Chloranthum* Rindl in Bot. Rep 1843. mix. 68; in Jour. Linn Soc. III 4907 is *C. variciforme*, Reicht. f in Bonpland. 1856, 7, 1

*C. Andrieuxii*, from Prod. 36 from Nepal, is doubtfully referred by Lindl. to the *Cypripedium* as probably

*Cymbria*, ex. Griff. Bot. III 343; in Plant. Asiae T. 319. *Cymbria latifolia*. The reference is omitted as vol. V. p. 20.

5 TUESDAY [64-301]

#### 41. *Cyperorchis*, (Blume)

Habit, foliage - inflorescence - *Cymbidium*, slender, racemes diverging, perianth segments narrow & converging, middle a higher lip nearly straight, & erect, epichile small, subglobose, shorter than elongate, & pollinia usually pyriform or a short subglobose, gland - *Cypripedium*. Except by narrow lip, long, & epichile, it is usually broader, epichile (a middle one), it is not easy to separate this genus from *Cypripedium*. In the pollinia very much like *Cypripedium*, *C. elegans*, *C. Mastersii* resembles *C. elegans*.

*C. elegans*, Blume, Rumph. II. T. 47. Orchid. Indrag. Sup. 93. T. 8 C. Raceme elong. fl. 1 1/2 in long, stem cold, white, lip sparsely hairy towards base, central bracts terminating below in 2 long, slender calli, capsule 1 in. *Cypripedium elegans* Lindl. in Bull. Cat. 7354. ex. pag. Bot. 163. Griff. Bot. III 337 (the *Cypripedium* plant only). Sub-tropical, *C. elegans* as. 4-7 000 ft, full sun. 5 Blume. *C. elegans* *C. elegans* 4-6 000 ft. Leaves 1 1/2 - 2 fl. by 1/2 - 1 in. Scapes 1/2 - 1 in. Curved, densely clothed with imbricate compressed lanceolate acmg. sheaths 2-5 in long; racemes 4-8 in long; rachis slender. fls. densely imbricate & imbricate; bracts small, membranous, acute; sepals & petals fine, ab. acute, & is concave, lip as long as petals, very slightly curved; hypochile narrow, cyathate, lobes spreading, broadly oblong, obtuse, with a long, as the anterior lobes, middle, column slender, base hairy in front. Capsule two-ellipsoid. - in Griffiths. Bot. this is named *Cypripedium*.



September 4 1925. ...  
 ... .. Set

Flower out. ...  
 28. 9. 25 33 32 25 ... One Nil.  
 28. 10. 25 30 22 16 ... Nil.  
 25 25 22 ... Nil.  
 10. 8. 26 42 3 11 ... Nil.  
 7. 7. 26 38 38 32 (8 flowers 1 stigma)

... ..  
 ... ..  
 ... ..  
 ... ..  
 ... ..

B2-32/12



Androbium crumenatum.

This species seems to be fertilized by the agency  
of bees & bees which are attracted by the very strong  
sweet scent. Results of observation have been  
very erratic.

Sept. 16<sup>th</sup> 1922. 16 flowers on one plant in garden.  
Bees were very busy. 10 flowers were ~~seen~~ with  
pollinia on the stigma or while bees were seen flying  
with pollinia attached to the thorax. One ~~seen~~ in house.

May 13<sup>th</sup> 1925 Same plant. 42 flowers only!  
of which two had pollinia removed. No fertilization.

July 27<sup>th</sup> 1925 Same plant 28 flowers. No  
pollinia removed. No fertilization.



labels (see C. Churruarri)  
in Herb. Calcutta. These are drawings of 3 forms apparently of  
this: 1. raceme laxer, flowers larger, nearly white  
flushed with pink, lip not prominent; 2. leaves 12-18 in.  
scape stout, sheath distant, 2 in long, raceme inclined  
flowers few, recurved, drooping, pale yellow, lip yellow,  
no ridge shown; 3. a smaller plant, leaves 9 in, scape 7 in  
densely clothed with imbricating sheaths, 3 in long; raceme  
erect, recurved, 5 in long, flowers yellowish, 1 3/4 in long; this last  
is named Cymbidium elegans, var. intermedium.

2 - C.  
Benth is from him Soc. III 318, raceme short, fls 2 in long  
to glabrous purple spotted, central ridge  
evanescent below, column glabrous, capsule 2 in long.  
Cymbidium masteisii, f. 11. Lindl. in Bot. Rep. 1845.  
C. micromeron Lindl. in Journ. Bot. Soc. III 29 (4th fig.)  
? C. affine, f. 11. Total III 336.

Assam, (name) Rhaxia No. 4-5000 ft. (fig. 11. etc.).  
habit & foliage of C. elegans, but raceme  
at the top, flowers larger, always white with a little red on  
lip. smelling almonds, lip broader, without basal  
calli & gilt glabrous, when stamens & pollen in bud  
the capsule requires larger - not shown. The  
case of indifferently dried specimens to distinguish this  
from Cymbidium Churruarri. Except by the small surface  
of Cymbidium micromeron consists of 6 flowers &  
fruiting specimen of this, together with the loose lip &  
column of a Calceolaria from which the specific  
character is drawn. He also refers to Griffith's  
description of C. affine (from Churruarri), rather of C.  
densiflorum.

THURSDAY [66-299]  
of another species from  
Surinam (all in Rhaxia No. 4-5000 ft.) observed. It is impossible  
to reconcile the statements made by Griffith by his  
editor without assuming that some confusion has  
taken place. Dr. Griffith's confusion has added  
by transferring the name affine Griffith from the  
Churruarri to Surinam plant. Of the three the  
only one certain is C. densiflorum, which is certainly Cephaenanthus elegans  
(I have gathered it at Churruarri). C. affine & the sur-  
inam plant having white flowers are both probably  
C. masteisii, a name which Griffith's affine would  
have superseded, had he really given it. But on  
referring to his No. 33, preserved at Kew, I find no such  
name: Griffith's description being headed "Calceolaria  
medium, which is a plant being allied to  
Calceolaria, but not Churruarri". It is related by  
himself in both his own herbarium (at Kew) & in  
Lindley's Bot. Beechey's as a specimen. As doubtless the  
error was the editor's, who replaced Calceolaria by Cymbidium  
the name masteisii is in error. One of Griffith's given  
is illustrated specimens which he sent from Calcutta  
gardens to the Royal Botanical Society.  
C. affine (various Orchid. alb. T. 140; Bot. Mag. N.S.T. 346  
is obtained not the plant described & fig. under that  
name by Griffith. It is a widely spreading, up to 4  
feet high, with thick large Cymbidium.

3 - C.  
Cochleare Benth. is from him Soc. XVIII 318, raceme elongate,  
capsules & petals v. narrow, fls 2 in long, greenish brown,  
lip glabrous, median ridge strong, 2 flid or apathulate



at the tip vanishing downwards. column very slender, glabrous.  
pollen pyriform. 8 FRIDAY [67-298] capsule 1 1/2 in. long. Cypripedium  
cochlearare, small, in garden. Soc. III. 28.

Stepan Himalaya alt. 4-6000 ft. 9. v. H. re Rhina<sup>High</sup>  
alt. 5-6000 ft. (Plate) no myrmica (diff.) 2 eggs in  
5 mm. 1 mm.

leaves 2-3 ft. long, 12-18 in. v. slender  
sheath 3-4 in, lax; sepals + revolute petals  
brownish green; lip yellow speckled red. with the  
antherines, golden-yellow.

4171. *Cremaster* Lindl.

2. terrestrial herb; rootstock tuberos. Leaves  
erect, scap solitary, stems,  
stems. flowers in second racemes, pendulous.  
sepals oblong very long - narrow, connate in  
a tube below, lanceolate acute spreading,  
curved above. Lip - at the base of  
column erect, linear, three subacute tip dilated  
3-lobed, lobes linear, disc with a  tongue shaped appendix.  
Column very long, slender, straight, top dilated &  
3-lobed; other short etc. 1 - called, collum.  
4. ovoid, compress, cuticle & gland membrane.

6. *Wallichiana* *synanthraus variabilis* (Blume). *Ces. Plant Nov 1829*

9 SATURDAY [68—297]

Temperate Himalayas - Nepal (Nalchik) Sikkim  
alt. 5,000 to 8,000 ft. V. H. etc. etc.  
Stems size of chestnut. Leaves 6-10. by 2-2 1/2 in  
sessile or petioled. Scape with raceme 2 ft.  
sheaths long. Loose; glumes 1/2 in long  
purple; pedicels short; bracts linear. I find no  
evidence of *Polystichum* or *Ceteris* ever having been  
published or even printed; if it goes so his  
name has priority.

50. 22 on 42. *Glodotum*. (Jackman).  
 Terrestrial, herbs; rootstock tuberous hypogaeal  
 leaves elliptic, acute, plicately ~~venose~~ venose rootstock  
 stem erect, leafy, short like leaves;  
 flowers crowded in dense racemes, bracts  
 yellow membranous. Sepals 5, brownish petals  
 conniving or spreading. Style exserted at base  
 or short ~~stipitate~~ stipitate. Ovary 1-2 celled  
 margins involute. Disk ~~dark or~~ dark ridges  
 ending in cells with thickened basal callus.  
 Folicle short, stout; but 2 cells, appendaged  
 after dehiscence. by the persistent detached faces  
 of cells; Pollinia 10-20, obovate reniform or  
subcircular a broad strap or flattened species  
 6-8 (?) Indian, Malayan & Australian.

It is impossible to define the species from the characters of the  
or produce a key system. The description of the species of *Rolobus*  
is given, kindly a gift. The following description is  
provisional only. I have spent days to no purpose in  
endeavouring to improve on it by analysis of specimens.



1. f.  
purpureum

11 MONDAY [70-295]  
Pl. in Hort. Rev. Ed. 2 v. 207. (Chen rep)  
usually tall, leaves of length petioles, acute  
acutely 5-nerved, petals rather broader  
apiculate 5-nerved, lip subquadrate, only oblong  
dark with a broad channelled  
ridge ending in raised calli or a crenate callus.  
Hort. Gen. exp. Orchid. 175. C. d. tatum, Wall. Cat. 76  
Limnorchis nutans (Rott. - G. Pl. 1. T. 40. pl. 2. 114 470.  
descrip in both erroneous) Anclasis nutans Willd. 175.  
Tropical Himalaya from Nepal eastwards: Bengal  
Assam, Burma, etc. Decan Peninsula & Ceylon.  
Siberia, Anatolia, Baluchistan, etc.  
Bogus f. purpureum was founded on Rott's drawing  
of Limnorchis nutans, a native of the Ganges, but  
of which no specimen is known. It is represented  
as having scape longer than  
leafy plant, raceme & an acute lip; characters not  
found in any Limnorchis. But if it be allowed  
that the elongate scape & leafy plant raceme are due to  
anything of all this after flowering, after the  
appearance of an acute lip is due to the unfolding  
of margins towards the apex, then f. purpureum is  
the commonest & wider-distributed Indian species.  
Adzell & Gibson alone identify a plant with  
of which they have examined authentic specimens  
of the species. They give Baron's characters  
of the species. These of their specimens are what  
I have given above. f. purpureum is the tallest  
& largest leaved medium species, its flowers vary  
from white lined with red, purple to pale purple with  
strong veins.

2. f.  
dilatatum

12 TUESDAY [71-294]  
New Moon, 7.52 p.m.  
Pl. in Hort. Rev. Ed. 2 v. 209; leaves usually sessile  
sepalobovate, acute 5-nerved, petal ob-obl.  
5-7 nerved lip broad, subtrifid. Tip dilated  
recurved, crenulate or undulate, dist. smooth or  
with granulate nerves ending in irregular small  
tubercles. Hort. Gen. exp. Orchid. 175.  
Limnorchis adenocaulon Rott. Cor. Pl. 1. 33 T. 39.  
Anclasis cernua Willd. Sp. pl. 1. 23. Otaandra cernua  
Salisb. in Trans. Hort. Soc. 1. 261.  
Assam, Sikkim, Burma, the Decan Peninsula &  
Ceylon (all rare, or less doubtful). It is an right  
in respect to this species, is distinguished from purpureum  
in its longer & broader petals & lip, the  
dark of which is smooth, granulate or not crenulate,  
width of lip is probably an exaggeration of the flowers.  
Adzell & Gibson describe it as a common plant, but  
I have seen no specimens so named by them.

3. f.  
candidum

Wall. Cat. 7374. Over ascending or erect, sepalobov-  
petals almost of  
narrowed upper part. 7-9 nerved, lip very broad  
dist. nearly flat. Tip 2 crested dilated base  
(in part) f. datterianum (Rott. - G. Pl. 1. 358 T. 24.  
Cald. & Willd. Bot. Ind. v. 358 T. 24.  
Burma. (Guthrie) Desmanthe, as Anclasis



31 Days.

MARCH, 1918.

MARCH 11 to 14.

but with further description his *f. attenuatum*, which is certainly the same as Wallich's *candidum* (having a truncate spike, subequal sepals & petals, which they are not in his drawing in *Herb. Caec.*) in today's white wide flowers, a usual tip of lip concave, almost conduplicate, emarginate crenate, disk with a callus, column sprinkled with cellular pubescence, & along the broad nerves of the lip, & a very short column with a deciduate tooth on each side of the apex. It is a very distinct species of *f. citrinum* is on the sheet with Wallich's specimens of this.

*G. G.* Jackson in *Anders Bot Rep.* 626; flowers  $1\frac{1}{2}$  in diam  
*Citrinum*. yellow, sepals & petals very broad acute, lip large oblong, 17 b; hind fr + sp. Orchid.

### Questioned Species.

*G. Pallidum*, Wall. in *Mon. Prodr.* 31. There is no species of this in Wallich's *Herbarium* & no name in his *Catalogue*; but there is a *Geodorum* in *Herb. Boiss.* and to his list, made by Wallich from *Repl.* of 1818, which is *G. purpureum* as defined above. *G. pallidum* Griff. 1835, from *Assam* & *Sikkim*, described from garden specimens, it is perhaps the white fl'd *purpureum*; its flowers. but described as white.

*G. Appendiculatum*, Griff. in *Cal. Jour. Nat. Hist.* V. 360. T. 24. is probably *G. purpureum* (14) *HERB. BOISS.* 173-174.

*G. Candidum*, Lindl. *Sol. Orchid.* 3, *Simodorum candidum* Ryd. from *Sikkim*; *Rhacis thoulouxi* is probably *dilatatum*; it is certainly not *G. candidum*, Wall.

*G. Dilatatum*, Lindl. in *Bot. Rep.* T. 675. It is white fl'd purple.

*G. Incatum*, Lindl. in *Bot. Rep.* T. 1687. *Sol. Orchid.* 5, from *Ceylon* resembles *G. purpureum*. Shows little that it has near affinity.

*G. latifolium*, Griff. *l.c.* 35. T. 24. from *Assam*, *Sikkim* strongly resembles *G. dilatatum* in its broad petals, dilated, imbricate, emarginate, white lip with yellow tinged with yellow & purplish base.

*G. longiflorum*, Lindl. *Sol. Orchid.* 3, from *Assam*, is I think certainly *G. purpureum*.

*Geodorum* sp. a narrow leaved plant with small flowers, *f. purpureum* *aphanophyllum*, Griff. resembles the Philippine *G. acaule*.

*G. javanicum*, Lindl. *Sol. Orchid.* 2. (*Castilleja cernua* Blume, *Bijdr.* 293-55). It is a small fl'd species, constantly referred to *Chamaedictyon* (Boiss. *plum.* 1854, 43) as

*G. dilatatum*, with little observation that *Wight's G. dilatatum* is a totally different species.

*G. speciosum*, Blume. *Bijdr.* 377. *pl. 20*  
*G. fastuosum*, Lindl. in *Repl. Prodr.* 11. 1819. *Wight's Trib. 9. T.*



*L. macranthum*, Reichb. f. *Xen. Orchid.* ii. 15. 16.

*Pattonia macrantha*, Wight &c. t. 1950.  
*Jabertia scripta*, f. in Frey. Voy. Bot. 1125.  
*Cymbidium scriptum*, Swartz in Schrad. Bin. 1799<sup>228</sup>  
*Epipedium scriptum* Linn. Sp. Pl. 1351.  
*Demaree* (Pav.) Perak (Scortechini) *Androc.* (Griff.)  
(1900 distrib. 5312) *Mangay* (112. D. 1655) Dist. *gave*  
I cannot find character whereby to distinguish  
f. *fastuosum* + *macranthum*; the latter was  
found on *griffithii* specimen. The flowers  
which in this case sepals + petals  
of the Perak plant are narrower than in the other

44 *Dipodium* (Brown)  
Stems leafy, tufted + epiphytic in the Indian species  
(herbaceous leafless in Australian) *canes* coriaceous  
jointed on their sheaths, equitant. Racemes long peduncled  
fls. rather large; perianth of *frammatoptylum* with the  
base of the lip forming a small sac with the column, &  
the side lobes reduced to small teeth; pollinia separate  
stipitate on a globose gland. Species by Australian *Androc.*  
+ *pauciflor.*

1 *D. pictum* Reichb. f. *Xen. Orchid.* ii. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 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1356. 1357. 1358. 1359. 1360. 1361. 1362. 1363. 1364. 1365. 1366. 1367. 1368. 1369. 1370. 1371. 1372. 1373. 1374. 1375. 1376. 1377. 1378. 1379. 1380. 1381. 1382. 1383. 1384. 1385. 1386. 1387. 1388. 1389. 1390. 1391. 1392. 1393. 1394. 1395. 1396. 1397. 1398. 1399. 1400. 1401. 1402. 1403. 1404. 1405. 1406. 1407. 1408. 1409. 1410. 1411. 1412. 1413. 1414. 1415. 1416. 1417. 1418. 1419. 1420. 1421. 1422. 1423. 1424. 1425. 1426. 1427. 1428. 1429. 1430. 1431. 1432. 1433. 1434. 1435. 1436. 1437. 1438. 1439. 1440. 1441. 1442. 1443. 1444. 1445. 1446. 1447. 1448. 1449. 1450. 1451. 1452. 1453. 1454. 1455. 1456. 1457. 1458. 1459. 1460. 1461. 1462. 1463. 1464. 1465. 1466. 1467. 1468. 1469. 1470. 1471. 1472. 1473. 1474. 1475. 1476. 1477. 1478. 1479. 1480. 1481. 1482. 1483. 1484. 1485. 1486. 1487. 1488. 1489. 1490. 1491. 1492. 1493. 1494. 1495. 1496. 1497. 1498. 1499. 1500. 1501. 1502. 1503. 1504. 1505. 1506. 1507. 1508. 1509. 1510. 1511. 1512. 1513. 1514. 1515. 1516. 1517. 1518. 1519. 1520. 1521. 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1688. 1689. 1690. 1691. 1692. 1693. 1694. 1695. 1696. 1697. 1698. 1699. 1700. 1701. 1702. 1703. 1704. 1705. 1706. 1707. 1708. 1709. 1710. 1711. 1712. 1713. 1714. 1715. 1716. 1717. 1718. 1719. 1720. 1721. 1722. 1723. 1724. 1725. 1726. 1727. 1728. 1729. 1730. 1731. 1732. 1733. 1734. 1735. 1736. 1737. 1738. 1739. 1740. 1741. 1742. 1743. 1744. 1745. 1746. 1747. 1748. 1749. 1750. 1751. 1752. 1753. 1754. 1755. 1756. 1757. 1758. 1759. 1760. 1761. 1762. 1763. 1764. 1765. 1766. 1767. 1768. 1769. 1770. 1771. 1772. 1773. 1774. 1775. 1776. 1777. 1778. 1779. 1780. 1781. 1782. 1783. 1784. 1785. 1786. 1787. 1788. 1789. 1790. 1791. 1792. 1793. 1794. 1795. 1796. 1797. 1798. 1799. 1800. 1801. 1802. 1803. 1804. 1805. 1806. 1807. 1808. 1809. 1810. 1811. 1812. 1813. 1814. 1815. 1816. 1817. 1818. 1819. 1820. 1821. 1822. 1823. 1824. 1825. 1826. 1827. 1828. 1829. 1830. 1831. 1832. 1833. 1834. 1835. 1836. 1837. 1838. 1839. 1840. 1841. 1842. 1843. 1844. 1845. 1846. 1847. 1848. 1849. 1850. 1851. 1852. 1853. 1854. 1855. 1856. 1857. 1858. 1859. 1860. 1861. 1862. 1863. 1864. 1865. 1866. 1867. 1868. 1869. 1870. 1871. 1872. 1873. 1874. 1875. 1876. 1877. 1878. 1879. 1880. 1881. 1882. 1883. 1884. 1885. 1886. 1887. 1888. 1889. 1890. 1891. 1892. 1893. 1894. 1895. 1896. 1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906. 1907. 1908. 1909. 1910. 1911. 1912. 1913. 1914. 1915. 1916. 1917. 1918. 1919. 1920. 1921. 1922. 1923. 1924. 1925. 1926. 1927. 1928. 1929. 1930. 1931. 1932. 1933. 1934. 1935. 1936. 1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2



31 Days.

MARCH, 1918.

MARCH 15 to 19.

18 MONDAY [77-288]  
Terrestrial, erect rigid leafy herbs, pseudobulbous  
leaves, distant & in terminal simple or branched  
racemes or panicles; bracts thick imbricate  
persistent. Sepals 3 petals, subequal, narrow,  
widely spreading. Lip adnate to base of column  
entire. Column monophyllous, broadly 2-lobed  
root 0. top, hooded; anther sub-2-celled; pollinia  
2, ovoid, sulcate, sessile on a scale like gland.  
Species 2.

1 B. pelueta Lindl in Bot. Reg. 1841.

B. finlaysonian, Reicheb. f. in 124. L.C. 882.

frammaphyllum? Dinleysonian Lindl in Wall.  
Cat. 1561

Perang, Penang Malacca, Singapore - distrib. Dinter

2 ? B. apoides. Reicheb. f. in Bot. Zeit. 1846.

Amazons, at Amazonia, Paris.

47 Polystachya, Hook.

Pseudobulbous leafy epiphytes. Leaves few  
distichous narrow, linear-lanceolate, entire, sheath  
small in mature plants. Inflorescence terminal; flowers very  
small in mature plants. Lip adnate to base of column  
entire. Column monophyllous, broadly 2-lobed  
root 0. top, hooded; anther sub-2-celled; pollinia  
2, ovoid, sulcate, sessile on a scale like gland.  
Species 10. all tropical

Polystachya, Hook. & Grev. Ann. VI. 640; stem 4-6 in,  
difflous, yellow, lip broader than long, side lobes  
nearly as long as the short broad rounded middle  
disk with median ridge slightly furrowed.

P. luteola, Hook. & Grev. Ann. VI. 640; stem 4-6 in,  
difflous, yellow, lip broader than long, side lobes  
nearly as long as the short broad rounded middle  
disk with median ridge slightly furrowed.

Leaves 2-3-4-6 by 2-4-1 in. stem stout; panicles  
strobilous, branches short, thick, long, linear-lanceolate,  
flattened, brach. small, acute, persistent, by  
flowers yellow; capsule to mid length, acute. Capsule 3 in

P. luteola, Hook. & Grev. Ann. VI. 640; stem 4-6 in,  
difflous, yellow, lip broader than long, side lobes  
nearly as long as the short broad rounded middle  
disk with median ridge slightly furrowed.

Wallich has been observed by Lindl. (Bot. Reg. 1846)  
to be a West Indian plant. The original specimen  
is now preserved in the Herbarium of the University of Cambridge  
The original specimen is now preserved in the Herbarium of the University of Cambridge  
The original specimen is now preserved in the Herbarium of the University of Cambridge

2. Polystachya, Hook. & Grev. Ann. VI. 640; stem 4-6 in,  
difflous, yellow, lip broader than long, side lobes  
nearly as long as the short broad rounded middle  
disk with median ridge slightly furrowed.



35 BILLS DUE WITH GRACE.  
30 Days—April 22.  
60 Days—May 22.  
90 Days—June 21.

MARCH, 1918.

3rd Month.

20 WEDNESDAY [79-286]

3. *P. zeylanica* - Lindl. in Bot. Reg. 1838. stem 12-18 in. lip  
cuneate-obovate, side lobes small acute,  
middle lobe rounded, disk purpureous, capsule  
reticulate between the ribs. W. J. P. Am. VI. 639.  
Baylor - with, *Andromeda*  
A. very much larger plant than either of the former  
with a stout stem & panicle 6-10 in long with  
branches 1-3 in long, flowers larger & leaves  
larger & broader than *P. mauritiana*. The *Andromeda*  
*P. mauritiana* Spreng. Bot. Mag. III 1742.  
(*Dendrobium polystachyum* Blume, Bot. Orchid. Apr. 1855)  
which kindly referred to  
*P. wrightii*.

- 48 *Phlogothlis*, Blue.  
Terrestrial herb with the creeping rhizome habit  
& inflorescence of *Dianthus* & *Chrysosplenium*, from  
which they are distinguished by the lower  
except quadrately lobed, its sides confluent  
with the sides of the above, only having the  
attached in pairs by 2 stripes &  
glands - species 4 or 5. *Andromeda* & *Chalcyon*.  
1. *P. acuminata*, Blue. Nov. 1846. long slender bracts  
lanceolate as long as the pedicel or longer, raceme  
puberulous. Original Bot. Mag. III 1742. Bot. 11676.  
Perch, at 2-3000 ft. THURSDAY [80-285]  
leaf-blade 10-12 by 2-3 in elliptic-lanceolate  
longer than the petiole. Petiole - base as long  
or longer slender; raceme very stiff, fls. simple  
or with a branch. The base of the bracts  
1/2 in lanceolate, acuminate, pedicel with ovary  
as long; flowers 1 in each, sparsely puberulous  
dorsal repeat lanceolate, pale blue, lig. quadrately  
contracted above base, styles rounded, retuse  
in front with a long cusp. Sepals a conical  
gibbosity - the specimen is not very good, but I  
think it is *P. acuminata*.

2. *P. javanica*, Blue. Blume. 350. r. 121. orchid. archip.  
Perch. at 3-1200 ft. *Andromeda* & *Chalcyon*.  
A *phlogothlis* from *Andromeda* & *Chalcyon*, resemble  
this but has a shorter raceme described by me  
as having obt. sepals. the specimen is flowerless.

- 49 *Luscia*, Land.  
Epiphytic, stem terete, rigid, sheathed  
puberulous. Leaves oblanceolate, acute, obtuse.  
Stems drooping, small, spicate on a short or  
very short erect apical peduncle; bracts very short,  
thick, subrectangular, persistent. Sepals subequal  
or the decurved dorsal smaller. Petals often  
longer narrower. Lip sessile on the base of the column  
base flat, concave or saccate. Column very short  
truncate, either 2-celled; polliniferous, ant-strobiloid, acute.



## 31 Days.

MARCH, 1918.

MARCH 20 to 24.

on a replicate short strap. Capsule ...  
 species about 15 tropical Asia to A. Caledonia, ...  
**MARCH, 1918.** **MARCH 20 to 24.**  
 The material at my disposal is ...  
 of this remarkable genus rare, though considerably,  
 from being sufficient. Above all careful  
 drawings for living plants should be obtained,  
 when the full attempt at description. The Indian  
 species will need revision & probably correction.  
 Petals not much longer than the lateral sepals (now  
 22 in ... primulina)

1. L. *gund. Bot. Jerey. Voy. 427. T. 37. Leaves 4-6 in,*  
*teretifolia. flowers small, pale, sepals subacute, keel*  
*- oblong obtuse, hardly*  
*longer than sepals, hypoch. white, moderate.*  
*epichile broadly cordate. Blume Rumph. 1, T. 194.*  
*L. Burmanian Lindl. L. c. L. brachystachys, var-*  
*flavola, Bur. + Recl. f. in J. Burm. C. xxx. 144.*  
*L. platyphloea Recl. f. in J. Burm. v. 1, 62.*  
*zeylanica Lindl. l. c. Cymbidium triste*  
*and J. Burm. iii 161 (not of Willd.; Recl. Aug. T. 3648;*  
*and J. Burm. iii 34 (the Anagallis plant). L. tenuifolia*  
*W. & A. f. in J. Burm. v. 1, 62.*  
*at China (20 years ago) Bengal, and elsewhere, Roxb.*  
*Pegu + ...*  
*from Ceylon to ...*  
*Oriss ...*

23. SATURDAY [S<sub>2</sub>—2S<sub>3</sub>]

S.R. 6.1, S.S. 6.14.

[illegible]







5. L. *micrantha* Hook. f. stem short robust, 2 or 3 slender,  
racios. a spike short which fls. flowers  
1/3 in diam. lateral sepals ovate and acute, petals  
oblong, obt. hypochile of lip obt.  
connate with 2 strong incurved teeth on each  
side, epichile longer, shaped fleshy, column  
rather long. Anther bifid (in Herb. right)  
Stem 2-5 in. internodes terete. Leaves as thick  
as a narrow mill. Chlorophyll  
with intrinsic white veins. Petals  
oblong, obt. hypochile of lip  
oblong, obt. connate with 2 strong incurved  
teeth on each side, epichile longer, shaped  
fleshy, column rather long. Anther bifid  
(in Herb. right) stem 2-5 in. internodes  
terete. Leaves as thick as a narrow mill.  
Chlorophyll with intrinsic white veins.

[illegible][illegible]







*Easter Monday. Bank Holiday.*

B. m.

13. L.  
frossini

shape of stem very slender, elongate, leaves  
 narrow, linear, very short, fl. flowers in  
 dense, globose, sessile, many, petals twice  
 as long as sepals, linear, cordate, column  
 very short, broad, apical lobes cordate, column  
 thin, c. 3. flowers (in hort. Calcutta) closely resemble  
 the filiformis, but are once distinguished by the long  
 petals. - Described from 2 drawings of plants, cultivated  
 in hort. Calcutta. The other is a drawing of the  
 other, which is a drawing of the other. The sepals + petals  
 are dark, the hypochrysis of column dark  
 dark, greenish, greenish in the other, in both dark

South species

[illegible]

... Bottomia ... night.  
 ... narrow,  
 ... branched.  
 ... petals wide spreading. Lip  
 ... column, which longer than  
 ... minute basal;  
 ... reflex. Column short;  
 ... 2, pyriform  
 ... gland  
 ... elongate.

*C. pectinularis*, Baill. f. in Cat Orchid. Vanda  
pedunculata, Lindl. Gen. & Sp. Orchid. 216.







## 30 Days.

APRIL, 1918.

APRIL 3 to 7.

across obtuse fleshy, disk with a broad coriaceous  
callus. *Gyldenstia* *Reichb. f. X en Orchid II 39.*  
**APRIL, 1918.** **APRIL 3 to 7.**  
*Vanda gigantea* Lindl. in Will. Cat. 7326; *N. Lindleyana*  
Griff. notul III 353 *Denegaria*; at Nandina Will.  
Stem pseudobulbous 5 FRIDAY [95-270] *Leaves* 1-2 p by 2-3 in very  
thick flat. *Raceme* 10-15 in, decurved, many  
branched. *bracts* short, broad; *flowers* 2 in  
diam; lateral sepals curved behind below tip.  
Gynophyll descender 2 *Stamens* 2 between the  
lateral sepals + petals.

2. S. Benth. m. s. s. flowers  $1\frac{1}{2}$  in diam. nearly white, sepals  
undulate. Petals lanceolate, wavy, base of  
lig. sacculate a dentate tooth on side of column, middle  
lateral compressed 3-4 in. long. *Ind. in John. R. Soc. III 42.*  
Eastern subtropical Himalaya; Sikkim + Nepal  
Platan ascending to 6000 ft. 1142. Hill  
stem 6-10 in. slender, scape minutely scabrous.  
Leaves 3-4 by  $\frac{1}{2}$ -3 in. unequally obtuse (zoned)  
scape raceme strict, erect, laxly pedd.  
near the top; bracts 4 in long, broad, obtuse; flowers  
white, phallid with faint or purplish; sepals  
obovate, undulate, lateral oblique. Petals  
similar but smaller; lip yellow, base orbicular,  
sides stretched with pink, mid-lobed lingiform;  
gustis tomentose, sometimes purplish; pollinia  
globose, strap short, gland large, transverse.  
I am very doubtful as to the affinity of this  
plant, which differs from S. giganteum in the  
bract, lip being dentate on side of column + joining  
with it a long with a thickened brim.

6 SATURDAY [96—269]

S.R. 5.29, S.S. 6.38.

52. *Arachnoides rhombus*.

Character of the base of the column - mobile. Species 5 or 6,  
primarily in the high mountains.  
This character of the mobile lip is a confirmation  
in the honey plant of some species.  
Flowers in simple racemes. The lobes of lip much  
smaller than the column.

B2-39/25

Sunday [97-268]

123

[illegible]







Perak, alt. 4,600 ft. 12th Collector - North Java, Borneo.

30 Days.

APRIL, 1918.

APRIL 8 to 11.

Stem or thick & smooth, sheath smooth, leaves 4-7  
lanceolate or linear, 2-3 ft. bracts very short, divaricate, 2-3 fld;  
pedicel with  
dark green or yellow above, maroon; upper margin of  
side lobes recurved; anther broad, pollinia  
very large, strap broad with a median ridge.

53 Phalaenopsis, etc.

Epiphytic, short, leafy, pseudobulb. Leaves  
distichous, coriaceous. Scape lateral; flowers  
usually large, loosely racemed. Sepals widely  
spreading. Petals narrower or broader. Lip  
clavate or sessile, adnate at base or  
column side lobes erect, midlobe various, apical  
disk 2-lobed, appendaged, with usually a forked plate  
anther 2-celled, pollinia 2, subequal or 2-partite,  
strap linear or apiculate, short 25, Indian, + Malayan  
ole glum requires revision + a large quantity  
of lip which is very imperfectly figured + described  
by authors who have had access to living  
specimens. Ole beautiful P. amabilis has been  
sent from Singapore, where it is cultivated.  
\* Lateral sepals inserted by a narrow base & base  
of very short spur of column.  
† Rachis of raceme compressed; bracts fleshy distichous

1. P. Reichb. f. in Mart. bot. Gart. 1860. 116. Scape 6-10 in  
Carnu. cor. fls. 2 in. Yellow-green barred with brown  
Pulferia f. Mart. 1886. 112. Polychilus-Cornu-Lewi  
Bred. Dich. Jav. T. 1. Bot. Mag. 7.5573.  
Dumortier, at Moulmein, Hobb, Paris. Perak, distich  
distich. Sumatra, Java, Borneo.  
Leaves 3-8 in. oblanceolate. Scape stout, rigid  
subis 70. Sarcophilus.

2. P. Wynn. & Blum in Bot. Art. Synchr. XIV. 1902. 34.  
Violaceo. Stamens prolecan. Reicht. y. 2. Mart. bot. Gart. 1862.  
Perak. (90. Sarcophilus) Singapore (100. Sarcophilus) distich  
Rachis of raceme terete.

3. P. Lowii. Reicht. y. 2. Bot. Gart. 1862. 114. in f. Chon. 1862.  
Petals fan-shaped with short length than the oblong  
sepals, lateral sepals much longer than the column.  
Dumortier; at Moulmein, Paris. Leaves 3-5 in  
ovate-oblong or lanceolate, with long petiole  
raceme 10-20 in. slender, simple or branched; fls. 1 1/2-2  
in. diam. Sepals white, dorsal largest & broadest; petals  
flushed with inner towards the base; lip sessile  
as long as lateral sepals, recurved oblong; side lobes  
oblong truncate & crenate at the tip purple; disk  
particled with a transverse forked plate, callus  
at the base of the side lobes, forked, with some  
soft spines behind; column short - pale purple.

4. Manning. Reicht. y. 1. in f. Chon. 1871. 407. Lateral sepals  
lanceolate acuminate, petals oblanceolate, lip etc.  
side lobes falcate oblong, with 2 spreading & recurved oblong rounded  
truncate with 2 spreading & recurved oblong rounded  
apical lobules. Column short.



Leaves 6-10 in oblong-lanceolate. Scape 12 in.  
bracted; flowers 1 1/2 in diam.  
sepals & petals yell. blotched brown, or white with  
purple blotches. Sepals dip with a 1-lobed appendage at the  
base of the middle lobe, which is a flattened  
sword-shaped appendage. Petals 1/2 in diam. short.  
obovate & appendage. Day like those of  
P. boninensis. Lemony in color. The column is long,  
the pollinia elliptic.

5. P.  
Speciosa

Reichb. f. in Bot. Beech. 1881. 1562. sepals elliptic-  
lanceolate, acute, petals similar but smaller,  
obovate. Lobs small linear-oblong  
thick, toothed, midlobe laterally compressed  
fleshy, tip dilated, notched. Scape 8-12 in  
obovate-oblong or lanceolate. Shape full, single  
or rarely with dark blotches. Petals white  
with yellowish center. 13 SATURDAY [103—261]  
S.R. 5.13, 8.51 6.50. Norway. R. f. has  
dark redder sepals & white petals. R. f. has  
R. f. has rose purple flowers.

6. P.  
tetraspis

Reichb. f. ex. Orchid. II. 146. 1881. 11. 662.  
flowers as in P. speciosa, but grayish white with  
greenish base. Calli of the disk. R. f. is  
fin. Bl. 1886. II. 2. 1886. 11. 662. 1886. 11. 662.  
Dried flowers of this. 1886. 11. 662. 1886. 11. 662.

7. P.  
Rumtleri

Hoch. f. sepals small, tip rounded, tip shortly clawed, side  
lobes small broadly ovate, truncate, middle  
obovate with thick yellow parallel ridge tip  
rounded. Petals. Rumtleri. Leaves 4-6 in oblong  
obovate or elliptic-lanceolate, acute pale green.  
Scape short squarish, 2-3 flowers tip;  
bracts very small, ovate; flowers 1 in diam; sepals  
& petals dull yell. green mottled closely with dull red  
at basal half; lip small, white side lobes erect  
thickened with 14 SUNDAY [104—261]  
and after Easter. midlobe red purple between  
ridges; lobes appendage small, with a 2-lobed callus  
behind it; column short 1/2 length of lip; pollinia  
globose strap-shaped, curved, glans quadrate  
Dried flowers & a drawing of whole plant  
Hoch. f. Bl. 1886. 11. 662. 1886. 11. 662.  
Lateral sepals inserted by a broad base on the column  
top of column



15 MONDAY [105-260]  
Interest payable on £4% War Loan, 1929-1942.

G. P.  
Parishii. Revell. in fruit, lobes 1.5-4.10. flowers small, lateral  
involuted, lip short sessile, side lobes small  
galeate middle lobe broad lower lobe slightly  
dentate cordate. Eastern Himalayas. Colb. name.  
Eaches 3-5 in. Leaves 3-5 in. long  
flowers 6-8 in. 6-8 fld; flowers  
lip red purple, base white. Cream cold  
as all these are very much broader  
partially partitioned the fig. is  
of 7 mm. color: which has a white  
lip with 2 chestnut bands.

16 TUESDAY 1106 353

16 TUESDAY [106—259]

P. fuscata, Reich. in Gard. Chron. 1849, ii. 10. allied to  
P. f. ... cervi, ... obt.  
acut., fls ... obtusely  
acut., petals ... 3- ...  
side ... on each side,  
mid- ...  
oblong ... base with a 2 toothed  
cellular ... side behind it  
column ... as "the base" -  
analogous ... Reich. L.C.  
reba ... whether the column  
has a foot or not.

[illegible]







Tropical Hinclaya, from far west-eastwards 48  
 across the Duaserra, 1000 ft. to 1000 ft. 49  
 APRIL, 1918. APRIL 17 to 21.



49  
30 Days—May 25.  
60 Days—June 24.  
90 Days—July 21.

BILLS DUE WITH GRACE.

APRIL, 1918.

4th Month.

Sec. VIII. Peduncles short, solitary. Lip stipitate, 5. Te  
with the part of column [112-253] ... (Sp. 27-33.)

Sec. IX. Peduncles filiform, fascicled. Lip sessile. Ridge  
Sec. Pterocares, Henselt. (gen. (see above))

1. *Enaveolens* elongate glabrous, side lobes of lip, filicate, middle  
decurved with a re-curved tip. *Ardisia smaragdula*  
Rost. & Schmidt. III. 473. *Crinitachium strictulum* Lindl. & Pax  
St. fard. III. 473. *Crinitachium strictulum*  
Hort. Belg. III. 473. *Crinitachium strictulum*  
Reichb. f. Xer. orchid  
II. 121, 123, 7. 140. (see above) in Trans. Am. Soc. xxx. 136.  
Plittagoy, Schumacher, as *nonulm* Pers.  
Stem slender, pubescent. 3-5 by  $\frac{2}{3}$ - $\frac{3}{4}$  in.

many-nerved, compressed  
3-6 in., short peduncles, lax, fls. racemes  
small, rounded; flowers  $\frac{1}{2}$  in diam, yell,  
speckled red, very fragrant; lip rather small,  
compressed; middle lobe purple or speckled pink  
with black lines repeated the whole of the P. radicans  
Hort. (see above) ... plant with oblong, obtuse, 2 lobed or notched  
leaves, ... + larger flowers (7  
in diam. hort.) the lip is  
curved, the whole plant is rather open with abundant  
small flowers ... in all organs  
*Sarcophilus ...*

2. *S. unimaculatus*

23 TUESDAY [113-252]  
Reichb. f. in f. ... leaves 6-9 in long  
racemes ... peduncles ... viscid, lip  
oblong, ... middle lobe ... 2 partite, pubescent.  
Andromeda ... leaves 1-in broad,  
oblong, notched or 2 lobed, lobes rounded. Scape  
with raceme 2-3 in. strict, bracts broad, obtuse;  
flowers ... light yellow, sweet-scented,  
sepals ... petals ... rather long;  
anther ... strap short flat,  
gland small. The lip is that of Sec. II.

3. *S. stenoglossis*

Hort. f. stem very short stout, leaves broadly  
ovate, tip broad rounded ... peduncle  
shorter than the leaves ... pedicels ... fls.  
sepals ... oblong, acute, lip ...  
long as the sepals, very narrow laterally flattened  
anther ... with 2 small ...  
toothed ... along the top + an elliptical  
... ? Perls, ...  
... leaves ... 6-10 by 2-2 1/2  
bracts ... small, ovate; pedicel ...  
diam. ... sepals ...  
lateral ...  
the elongated cup ... is edged with ...  
+ extends ... a ...  
ends ... compressed ...  
spur, which is in a straight line with the body of the lip,



and resembles a terminal lobe; column <sup>150</sup>  
narrowly to near the base, tip acute, posterior hooked  
mother shortly <sup>150</sup>  
straps spatulate, glands small - base of  
distant <sup>150</sup>

APRIL, 1918. APRIL 22 to 25.

24 WEDNESDAY [114-251] arena.

APRIL 22 to 25.

24 WEDNESDAY [114-251]

THURSDAY [1853]  
S. Mark.

[illegible]



51  
30 Days—May 29.  
60 Days—June 28.  
90 Days—July 27.

BILLS DUE WITH GRACE.

APRIL, 1918.

4th Month.

26 FRIDAY [116-2491]  
Full Moon, 8.5 a.m.

Stem as stout as little finger. Leaves 4-10 by 1 1/2-2 in  
new coriaceous. Peduncle from below leaves  
flowers scattered  
towards the end of the peduncle; bracts or short  
bracts with pedicel with ovary 3/4 in  
straight; capsule 1 in - petals folded yellow; lip  
about 1/2 in. above the blade, & then very pated for the  
peduncle. The ovary is erect, white  
beared with dull pink; disk with a crumpled transverse  
over the base of ovary; column stout, not  
inconspicuous; disk very short, bearded, yellow  
tearful apical, described from plant in flower. See by  
Cerv. Calcutta. & the analysis of dried flowers.

7. S. Cladostichus. Book 1. ... Calcutta V. Perak. D. Bentin  
evidently ... the whole plant is much smaller. The peduncle is  
... & narrower,  
... is of a young plant.

8. S. purpureus. Bent. n. 831, ... peduncle lax-fld, flowers  
pale purple, lip ... lateral-  
lobed-shaped ... included ...  
pallid, ... 7221 (in part). Cameroti  
purpureus, ... 329; ...  
C. ... 7221 (in part). Cameroti  
Andes ... 7221 (in part). Cameroti  
Shasia ... 7221 (in part). Cameroti  
stem 2-3 ft. as thick as ... leaves 3-4  
... 2 lobes, ...  
Ad ... of exceeding the leaves, laxly  
many-fl ... broad. flowers 1/2-3/4 in  
diam; ... petals very obtuse  
cap ... 2 in long, slender.

9. S. Roxburghii. Book 1, ... rather  
dense, flowers ... slipper-shaped  
lateral ... large rounded, ...  
with an ... the tip. Anicropora  
pallida ... 1522; it will  
... 7221 (in part). Cameroti  
pallida ... 219. Cameroti  
Berides ... 37  
Bengal; ... Chittagong, ...  
... 241  
stem 2-3 ft. leaves 2-3 in long, ...  
notched, ... longer than leaf;  
bracts persistent; ... white;  
... in ... white;  
... Anicropora pallida  
... consists of one sheaf of  
... one of  
Bercanthus secundus, but there are specimens of pallid  
under his number 7221 in Ber. Cal.



11, S.  
mannii  
Hook. f. racemose, glabrous, sessile, few fld, lip  
slipped - shaped, glabrous, drawn, side lobes  
oblong, 1/2 in. long, 1/4 in. wide, antecious scale  
truncate, black under fls. Petiole tip stem co.  
rhoeis. Hb., Oct. 2, 1900. Mannii. Stem co.  
thick as above, glabrous, brown, villous, 1/4 in.  
long. Raceme 1/2 in. long; flowers 1/4 in. diam.  
app. 1/2 in. long. Petiole 1/4 in. long, oblong;  
lip with the lobes 1/4 in. long. The portion -  
very much enlarged, longer, more convex, - leaved  
than S. obtusum. Lips with ridge along the posterior  
face.

[illegible]







[illegible]



55  
30 Days—June 8.  
60 Days—July 8.  
90 Days—Aug. 7.

BILLS DUE WITH GRACE.

MAY, 1918.

5th Month.

MONDAY [126-239]

Rogation Day, Accession 1910.

from drawing in Hb. Calcutt, & analysis of dried  
flower. It is a difficult to describe the structure  
the lip; its claw may be the base of the column  
protruding beyond the insertion of the broad-  
based lateral sepals.

sect 441 Dendrochilum, Brach in fers. Plaid III 575

20 S.

Hystrix

Reichb. f. in Hb. p. 291. v. 500, peduncle show as  
long as the column. Bracts erect  
subulate-lanceolate, side lobes of lip glandular  
-hairy. Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Aeride Hystrix, Brach in fers. Plaid III 575.  
Thrippem Hystrix, Reichb. f. in Hb. p. 291.  
Grossen Hystrix, Reichb. f. in Hb. p. 291.  
Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Parish - Dendrochilum, Brach in fers. Plaid III 575.  
ly 1/3 - 2/3 in, obtuse, lobes; sheaths ribbed.  
Peduncle 2 - 3 in, slender or slender, 2 - 3 sheaths.  
Flower 1/3 in, flowers white, sepals spatulate  
4 in long, lanceolate-lanceolate, slightly notched  
clawed, spotted with yellow, lobes (inner) with  
side lobes triangular, truncate, truncate  
glandular - pubescent, column 5. show;  
anther 1/2 in, yellow, 2-4 in  
v. unequal, 1/2 in, 1/2 in, gland rounded.  
Cypripedium 3/4 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
a narrow, 1/2 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
1st and 2nd Dendrochilum, Brach in fers. Plaid III 575.

21 S.

pulchellus

Reichb. f. in Hb. p. 291. v. 500, peduncle show as  
long as the column. Bracts erect  
subulate-lanceolate, side lobes of lip glandular  
-hairy. Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Aeride Hystrix, Brach in fers. Plaid III 575.  
Thrippem Hystrix, Reichb. f. in Hb. p. 291.  
Grossen Hystrix, Reichb. f. in Hb. p. 291.  
Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Parish - Dendrochilum, Brach in fers. Plaid III 575.  
ly 1/3 - 2/3 in, obtuse, lobes; sheaths ribbed.  
Peduncle 2 - 3 in, slender or slender, 2 - 3 sheaths.  
Flower 1/3 in, flowers white, sepals spatulate  
4 in long, lanceolate-lanceolate, slightly notched  
clawed, spotted with yellow, lobes (inner) with  
side lobes triangular, truncate, truncate  
glandular - pubescent, column 5. show;  
anther 1/2 in, yellow, 2-4 in  
v. unequal, 1/2 in, 1/2 in, gland rounded.  
Cypripedium 3/4 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
a narrow, 1/2 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
1st and 2nd Dendrochilum, Brach in fers. Plaid III 575.

22 S.

trichos

Reichb. f. in Hb. p. 291. v. 500, peduncle show as  
long as the column. Bracts erect  
subulate-lanceolate, side lobes of lip glandular  
-hairy. Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Aeride Hystrix, Brach in fers. Plaid III 575.  
Thrippem Hystrix, Reichb. f. in Hb. p. 291.  
Grossen Hystrix, Reichb. f. in Hb. p. 291.  
Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Parish - Dendrochilum, Brach in fers. Plaid III 575.  
ly 1/3 - 2/3 in, obtuse, lobes; sheaths ribbed.  
Peduncle 2 - 3 in, slender or slender, 2 - 3 sheaths.  
Flower 1/3 in, flowers white, sepals spatulate  
4 in long, lanceolate-lanceolate, slightly notched  
clawed, spotted with yellow, lobes (inner) with  
side lobes triangular, truncate, truncate  
glandular - pubescent, column 5. show;  
anther 1/2 in, yellow, 2-4 in  
v. unequal, 1/2 in, 1/2 in, gland rounded.  
Cypripedium 3/4 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
a narrow, 1/2 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
1st and 2nd Dendrochilum, Brach in fers. Plaid III 575.

23 S.

recurvum

Reichb. f. in Hb. p. 291. v. 500, peduncle show as  
long as the column. Bracts erect  
subulate-lanceolate, side lobes of lip glandular  
-hairy. Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Aeride Hystrix, Brach in fers. Plaid III 575.  
Thrippem Hystrix, Reichb. f. in Hb. p. 291.  
Grossen Hystrix, Reichb. f. in Hb. p. 291.  
Dendrochilum Hystrix, Reichb. f. in Hb. p. 291.  
Parish - Dendrochilum, Brach in fers. Plaid III 575.  
ly 1/3 - 2/3 in, obtuse, lobes; sheaths ribbed.  
Peduncle 2 - 3 in, slender or slender, 2 - 3 sheaths.  
Flower 1/3 in, flowers white, sepals spatulate  
4 in long, lanceolate-lanceolate, slightly notched  
clawed, spotted with yellow, lobes (inner) with  
side lobes triangular, truncate, truncate  
glandular - pubescent, column 5. show;  
anther 1/2 in, yellow, 2-4 in  
v. unequal, 1/2 in, 1/2 in, gland rounded.  
Cypripedium 3/4 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
a narrow, 1/2 in, 1/2 in, 1/2 in, Reichb. f. in Hb. p. 291.  
1st and 2nd Dendrochilum, Brach in fers. Plaid III 575.



25. S. Hook. DC. Pl. W. ind. stem elongate, leaves  
 filiformis, 8-10 in filiform terete, palmate, much shorter  
 than leaves, lip a spirally cylindrical sac. with  
 orbicular side lobes. Petals 5, slender, or blades  
 of trees - King's Collector. Stem in the long spec.  
 is 3 in; sheath  $\frac{1}{2}$  in strongly ribbed; roots  
 v. long & slender. Leaves, short 8 in diam,  
 flexuous. Peduncles 1-3 in; style  $\frac{1}{4}$ - $\frac{1}{2}$  in;  
 bracts  $\frac{1}{2}$  in broadly ovate, obtuse fleshy;  
 pedicel  $\frac{1}{2}$  in; flowers white; sepals  
 $\frac{1}{2}$  in, ob. lance. obt. like a small white horn  
 from the column; petals obtuse, 7 nerved;  
 lip sessile, mid lobe large, mid lobe the longest  
 apex of the subcylindrical round basal sac  
 cular. Ovary v. short, 1 ov. from fleshy  
 flowers much like those of S. truncata, but  
 habit very different.

[illegible][illegible]







31 Days.

MAY, 1918.

MAY 10 to 14.

minut minute midlobe, a callus in the concavity  
Dendrocalyptus sericeus Lind. for sp. Odont.  
33 (the beryl plant only) Epidendrum complanatum  
Ref. obs. VI. 50 <sup>13</sup> MONDAY [133-231]  
sp. n. 1126; beryl name, name. Cumbaganova  
Saffragan distich, rare, shape. Like S.  
arachnites. I am doubtful in only by the v.  
differs from a form of for these characters  
I am indebted to the copy of a drawing in the  
Peradeniya Bot. garden. The leaves vary  
from 2-7 by 1/2-3 in, obtuse or inequally notched  
the peduncle from 1-2 in; the raceme from 1-5 in.  
capsule 2-2 1/2 in, linear, straight; pollinia 4  
in unequal pairs, narrow, quite distinct with  
strap or glan in the top. There is a specimen of this  
in Herb. Kottler, without a label, named Epidendrum  
complanatum. Ref. I. VI. 50.

32. S.

brachystachys Hook. f. stem rigid, slender 2-3 in strongly  
ribbed when dry. Leaves ob- ped with  
few fl. raceme much shorter than leaves, sepals  
ob- - obov. ob. petals ob. side lobes sessile  
lip of labellum slender midlobe as long as  
ob. apex recurved. Plant on blocks of stone  
amongst decayed leaves, on a  
thick soil. Leaves 2 1/2-3 by  
1-1 1/2 in. Ob. - <sup>14</sup> TUESDAY [134-231] <sup>14</sup>   
raceme mid. the raceme in very slow, rigid;  
bract 1/4-1/2 in long, roundish, sepals & petals  
about 1/2 in long, keel narrow, winged; column  
ob. short; anther long, not beak.

33. S.

pauciflorum Hook. f. stem rigid, leaves rather distant oblong  
obtus. peduncle much shorter than leaves, etc.  
Perch at 1 least range. Ref. 3 obs. p. Scortechini

34. S.

acutiflorum Hook. f. stem rigid, leaves rather distant oblong  
obtus. peduncle much shorter than leaves, etc.  
Perch at 1 least range. Ref. 3 obs. p. Scortechini

35. S.

Species unknown to me or imperfectly  
Thrippanum Kraemer, Phil. in Gard. chron. 1897  
Roots white, leaves 6-7 by 1 1/2 in ligulate  
unequally 2 toothed, racemes many flowered, bracts  
remov. long. The small ovary, sepal linear  
long, narrow, petals a little shorter, lip broad acute  
3 toothed, with 4 small apiculate stipitate globose  
warty bodies before the base, centre white  
lateral parts yellow with brown streaks, anthers  
greenish - R. near like a yellow - brownish spotted brown  
S. Sultanianum. Ref. 1. in Gard. chron. 1892. 1524  
Leaves of Nanda type, leaves slender elongate terete,  
pe bract 2 fl. bracts v. show triangular, fl. with  
upper yellow, mentum long, dorsal sepal elliptic  
lateral anthers oblong. petals oblong rhomboid.



30 Days—June 17.

60 Days—July 17.

90 Days—Aug. 16.

MAY, 1918.

5th Month.

TH GRACE  
 e 17. lip erect, tripart, spur coriaceous nearly as long  
 17. as the pedicel of the ovary, side lobes subcordate  
 16. striped with purple, midlobe shorter than the  
 4-lobed, white with 2 purple blotches,  
 yellow within  
 inapparent - Burma?

MAY, 1918. 5th Month.  
 15 WEDNESDAY [135-230]  
 Scotch Quarter Day.

L5 WEDNESDAY [135-230]  
Scotch Quarter Day.

*S. bic. eximius*. resembles *S. brachystachys* but stem  
much more slender, internodes  $\approx 1$  is  
ribbed when dry - aequi, piffia.

8. Sect. Budder; resembles *L. brachites*, but capsule  
4 in long. & proportionately stouter - Parke. Scotland

S. sect. *Encalla*, a small species: stem 1-2 in  
curved, pedicels slender, bracts distant  
acute, young capsule 1 in. slender. Rhosie Hills  
of America. H. + 3.

57. *Trichoglossus* *Blue*.

1. separato

...the sides of the  
...processes;  
...the middle.

10 THURSDAY [136-279] ... produced into ... after ... 2-celled ... slow, gland ...

as I am doubtful  
of the identity of the  
man. I have seen him in  
the picture of  
Richard Lottin. But he is very different from  
the man who was with me at the time of the  
assault.

collen, with a process on each side, by "lip  
adrate" to form a column. Joining with is a large  
"white" and "orange" and "orange"

to rectify the string-tipped species  
Belmont in his *Gold Dragon*  
This is 12 Aug 36 D. fig VIII

... fine. 1st. 2nd. 3rd. 4th. 5th. 6th. 7th. 8th. 9th. 10th. 11th. 12th. 13th. 14th. 15th. 16th. 17th. 18th. 19th. 20th. 21st. 22nd. 23rd. 24th. 25th. 26th. 27th. 28th. 29th. 30th. 31st. 32nd. 33rd. 34th. 35th. 36th. 37th. 38th. 39th. 40th. 41st. 42nd. 43rd. 44th. 45th. 46th. 47th. 48th. 49th. 50th. 51st. 52nd. 53rd. 54th. 55th. 56th. 57th. 58th. 59th. 60th. 61st. 62nd. 63rd. 64th. 65th. 66th. 67th. 68th. 69th. 70th. 71st. 72nd. 73rd. 74th. 75th. 76th. 77th. 78th. 79th. 80th. 81st. 82nd. 83rd. 84th. 85th. 86th. 87th. 88th. 89th. 90th. 91st. 92nd. 93rd. 94th. 95th. 96th. 97th. 98th. 99th. 100th. 101st. 102nd. 103rd. 104th. 105th. 106th. 107th. 108th. 109th. 110th. 111th. 112th. 113th. 114th. 115th. 116th. 117th. 118th. 119th. 120th. 121st. 122nd. 123rd. 124th. 125th. 126th. 127th. 128th. 129th. 130th. 131st. 132nd. 133rd. 134th. 135th. 136th. 137th. 138th. 139th. 140th. 141st. 142nd. 143rd. 144th. 145th. 146th. 147th. 148th. 149th. 150th. 151st. 152nd. 153rd. 154th. 155th. 156th. 157th. 158th. 159th. 160th. 161st. 162nd. 163rd. 164th. 165th. 166th. 167th. 168th. 169th. 170th. 171st. 172nd. 173rd. 174th. 175th. 176th. 177th. 178th. 179th. 180th. 181st. 182nd. 183rd. 184th. 185th. 186th. 187th. 188th. 189th. 190th. 191st. 192nd. 193rd. 194th. 195th. 196th. 197th. 198th. 199th. 200th. 201st. 202nd. 203rd. 204th. 205th. 206th. 207th. 208th. 209th. 210th. 211th. 212th. 213th. 214th. 215th. 216th. 217th. 218th. 219th. 220th. 221st. 222nd. 223rd. 224th. 225th. 226th. 227th. 228th. 229th. 230th. 231st. 232nd. 233rd. 234th. 235th. 236th. 237th. 238th. 239th. 240th. 241st. 242nd. 243rd. 244th. 245th. 246th. 247th. 248th. 249th. 250th. 251st. 252nd. 253rd. 254th. 255th. 256th. 257th. 258th. 259th. 260th. 261st. 262nd. 263rd. 264th. 265th. 266th. 267th. 268th. 269th. 270th. 271st. 272nd. 273rd. 274th. 275th. 276th. 277th. 278th. 279th. 280th. 281st. 282nd. 283rd. 284th. 285th. 286th. 287th. 288th. 289th. 290th. 291st. 292nd. 293rd. 294th. 295th. 296th. 297th. 298th. 299th. 300th. 301st. 302nd. 303rd. 304th. 305th. 306th. 307th. 308th. 309th. 310th. 311th. 312th. 313th. 314th. 315th. 316th. 317th. 318th. 319th. 320th. 321st. 322nd. 323rd. 324th. 325th. 326th. 327th. 328th. 329th. 330th. 331st. 332nd. 333rd. 334th. 335th. 336th. 337th. 338th. 339th. 340th. 341st. 342nd. 343rd. 344th. 345th. 346th. 347th. 348th. 349th. 350th. 351st. 352nd. 353rd. 354th. 355th. 356th. 357th. 358th. 359th. 360th. 361st. 362nd. 363rd. 364th. 365th. 366th. 367th. 368th. 369th. 370th. 371st. 372nd. 373rd. 374th. 375th. 376th. 377th. 378th. 379th. 380th. 381st. 382nd. 383rd. 384th. 385th. 386th. 387th. 388th. 389th. 390th. 391st. 392nd. 393rd. 394th. 395th. 396th. 397th. 398th. 399th. 400th. 401st. 402nd. 403rd. 404th. 405th. 406th. 407th. 408th. 409th. 410th. 411th. 412th. 413th. 414th. 415th. 416th. 417th. 418th. 419th. 420th. 421st. 422nd. 423rd. 424th. 425th. 426th. 427th. 428th. 429th. 430th. 431st. 432nd. 433rd. 434th. 435th. 436th. 437th. 438th. 439th. 440th. 441st. 442nd. 443rd. 444th. 445th. 446th. 447th. 448th. 449th. 450th. 451st. 452nd. 453rd. 454th. 455th. 456th. 457th. 458th. 459th. 460th. 461st. 462nd. 463rd. 464th. 465th. 466th. 467th. 468th. 469th. 470th. 471st. 472nd. 473rd. 474th. 475th. 476th. 477th. 478th. 479th. 480th. 481st. 482nd. 483rd. 484th. 485th. 486th. 487th. 488th. 489th. 490th. 491st. 492nd. 493rd. 494th. 495th. 496th. 497th. 498th. 499th. 500th. 501st. 502nd. 503rd. 504th. 505th. 506th. 507th. 508th. 509th. 510th. 511th. 512th. 513th. 514th. 515th. 516th. 517th. 518th. 519th. 520th. 521st. 522nd. 523rd. 524th. 525th. 526th. 527th. 528th. 529th. 530th. 531st. 532nd. 533rd. 534th. 535th. 536th. 537th. 538th. 539th. 540th. 541st. 542nd. 543rd. 544th. 545th. 546th. 547th. 548th. 549th. 550th. 551st. 552nd. 553rd. 554th. 555th. 556th. 557th. 558th. 559th. 560th. 561st. 562nd. 563rd. 564th. 565th. 566th. 567th. 568th. 569th. 570th. 571st. 572nd. 573rd. 574th. 575th. 576th. 577th. 578th. 579th. 580th. 581st. 582nd. 583rd. 584th. 585th. 586th. 587th. 588th. 589th. 590th. 591st. 592nd. 593rd. 594th. 595th. 596th. 597th. 598th. 599th. 600th. 601st. 602nd. 603rd. 604th. 605th. 606th. 607th. 608th. 609th. 610th. 611th. 612th. 613th. 614th. 615th. 616th. 617th. 618th. 619th. 620th. 621st. 622nd. 623rd. 624th. 625th. 626th. 627th. 628th. 629th. 630th. 631st. 632nd. 633rd. 634th. 635th. 636th. 637th. 638th. 639th. 640th. 641st. 642nd. 643rd. 644th. 645th. 646th. 647th. 648th. 649th. 650th. 651st. 652nd. 653rd. 654th. 655th. 656th. 657th. 658th. 659th. 660th. 661st. 662nd. 663rd. 664th. 665th. 666th. 667th. 668th. 669th. 670th. 671st. 672nd. 673rd. 674th. 675th. 676th. 677th. 678th. 679th. 680th. 681st. 682nd. 683rd. 684th. 685th. 686th. 687th. 688th. 689th. 690th. 691st. 692nd. 693rd. 694th. 695th. 696th. 697th. 698th. 699th. 700th

at 90 flowers purple, seeds

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17 FRIDAY [137-228]  
Easter Lay Sittings end.  
First Quarter, 8.14 p.m.

*Democarenum*; *aff. monilium*, Parich.  
Here 1-2 y. *stems* roots, *leaves* *few* 3-6 y.  
2-4 in. *leaves* 8 in. erect, stiff, branches *sparsely*  
bracts *brown* *ovate*; *perianth* *white*  
flowers 1-1 1/2 *anthers* 2 lobed, erect  
pollinia large, strap short slender. *anthers*  
of *baricels* *emarginately* *apiculate* *obovate*  
drawing in *flor.* *elliptic* *giving* *anthesis* -

2 y. T. *Ray* in *young* *Ray*. *Ac. doc* x *LV*. 156. T. 13; *glabrous*  
*leaves* *linear-lanceolate* *undulate* *long*  
*glauco* *pubescent* *only* *young* *also* *showing*  
along *stems* *petioles* *similar* *but* *more*  
*apiculate* *stems* *erect* *inflated* 2 *posterior* *lobes*  
*longer* *cellulose* *between* *lobes* *indurated* *in* *the*  
*reflexed* *lobes* 2-*finger* *with* *a* *terminal* *lobe*  
*the* *tip* *spans* *suboptimal* *under*  
*the* *middle* *lobe*. *anthers* *obovate* *longer* *than*  
*1* *anther*. *Ray*. *Rayes* *3* *long* *long*  
*narrowest* *middle* *lobes* *long* *apiculate*  
*pedicel* *to* *in* *ray* *long* *obovate*  
*subfalcate*; *lobes* *long* *obovate*  
*Description* *from* *Ray*. *Le. i* *globose*.

58 *Aerides*, *Low*.  
*Epiphyte* *stem* *leaf* *double* *lobes* *O*.  
*leaves* *linear-lanceolate* *undulate* *long*  
*many* *and* *highly* *columnar*, *in* *dense* *rosette*  
*deciduous* *of* *few* *large* *or* *smaller* *leaves*  
*sepals* *broad*, *apiculate*, *lateral* *alternate*  
*to* *the* *base* *or* *for* *of* *column*. *petals* *broad*,  
*spreading*. *lip* *spurred*, *small* *lobes* *large*  
*small* *or* *O*; *lobes* *larger* *than* *the* *side*  
*lobes* *or* *smaller* *or* *more* *or* *less* *than*.  
*column* *short*, *not* *long* *or* *rostellum*  
*short* *or* *long* *or* *bifid*; *anthers* *2* *lobes*,  
*beaked* *or* *not*, *pollinia* 2, *globose*, *anthers*  
*strap* *long* *or* *short*, *glans* *large* *or* *small*, *species*  
*about* 10. *Eastern* *Asiatic*.

18 SATURDAY [138-229]  
S.R. 4.8 S.S. 7.46.  
*I* *am* *not* *in* *determining* *the*  
*cultivated* *species* *of* *Seer. ii + iii* *to* *Adams* *Veitch*  
*for* *specimens* *at* *go* *of* *his* *exister*  
*Dr. Khr.* *of* *Dr. Rolfe* *(of* *the* *New* *Herbarium)* *for*  
*valuable* *information* *respecting* *them*.  
*Se. G. P.* *These* *growing* *in* *port.* *(See* *also*  
*Ac. nitratum)* *petals* *7-2* *fls.* *spur* *slightly*  
*incurved* *with* *a* *small* *lobes* *the*  
*anther* *short* *lobes*.

19 Sunday [139-226]  
Whitsun Day. Forth Week.  
*Reicht. f. in* *fact*. *Chm.* 1867-957. *leaves* 6-10 in,  
*petals* *linear-lanceolate*, *outer* *margin* *to* *the* *middle* *lobe*  
*clawed* *tip* *dilated* 2-*partite*. *Ac. cylindricum*  
*hook.* *Bot.* *May*. T. 498 *(Nov* *of* *Lindl.)*

1 *Ac.*  
*Vanderum*



30 Days—June 22.

60 Days--July 22.

90 Days—Aug. 21.

MAY, 1918.

5th Month.

20 MONDAY [140—225]

*Whit Monday. Bank Holiday.*

MAY, 1918. 5th Month.  
 20 MONDAY [140-225]  
 Whit Monday. Bank Holiday.

*Leuc. in Wallb. Cat. 7317; Ga. Orchid.*  
 leaves 2-6 in, petiole short, side lobe  
 of lip obtuse, middle lobe short cuneiform  
 fleshy many. Height 1744.  
*Epipedium subulatum*, Det. of V. 50.  
*Lilodorum subulatum*, Wild. Sp. Pl. 1126.  
*Oncidium elegans*, Ker. Hayne.  
*Onc. Canadense*; for the P. G. Hill, Hayne.  
 Dravacore, Wight ex. *Onc. G. Hill, Hayne.*  
 stem elong, which as of *g. Hill, Hayne.*  
 leaves as thick as a crow's bill, very oblique  
 flowers 2-3 in diam, white or  
 pinkish with ~~pink~~ <sup>obovate</sup> oblong  
 obtuse lateral deformed, also broader, short  
 side lobes of lip small, pedicel as large as middle  
 which is yellowish at the base; spur recurved;  
 sepals long; throat of pollinia short, broad  
 capsule 2 in quadriform or sub-clavate, the  
 ridged lip is short. *Vander.*  
 Sec II. Leaves lanceolate, bearded; semi-terete  
 as *mitratum*; side lobe of lip very small,  
 middle large; spur interve  
 lip horizontal or inflexed

Reich. f. m. Cor. Zeir 18.64. 415. leaves very long  
filips in fruit lobes of lip almost unmarked.



*Ember Day.*

6. *Ac.* *Lindl.*, ex. *novae* *plantae*. 1875. 86T-10.  
*Friedbergii* character of *Ac.* *multiflorum* but a much  
more robust plant, with a different  
middle of the lip. *Ac.* *Willd.* *novae* *st.*  
*orchid.* *ser.* 18. 21.  
*Likiep*. *Himalaya*. *Assam*. I am indebted  
to the Rev. *W. A. Neill* for  
calling my attention to the difference between  
this *Ac.* *multiflorum* and the  
detection in *Herbarium* specimens. According  
to the published figs.  
color, white, with a purple *Ac.* *Willd.* *novae* *st.*  
*white* flowers *Ac.* *Willd.* *novae* *st.*  
*in* *Ac.* *Willd.* *novae* *st.*  
is referred to *Friedbergii* by *Assam*, *Novae* *st.*  
of *figs.* *two* *slender* *spike* *the* *day* *break*  
*orchid.* *figs.* *5* *and* *6*  
7. *Ac.* *Lindl.* *in* *Bot.* *alg.* 1845. 5. 56: in *figs.* *Cham.* 1845  
*maculosum* middle of lip ovate tip  
*reticulate* *in* *figs.* *middle* *tip* *reticulate*  
*incurred*. *Patt.* *May* *1845* *figs.* *1* *and* *2*; *Bentley* 1845  
*Lindl.* *in* *T. 11* *Saccolabium* *speciosum* *figs.*  
*Ac.* *T. 16* *figs.* *16* *and* *17*. *Western* *figs.* *from* *Concom*  
*near* *Ac.* *multiflorum* *in* *figs.* *shorter* *leaves* *more*  
*flat*, *racemes* *more* *often* *branched*, *flowers* *larger*  
*and* *v.* *variable* *in* *size*, *pale* *spotted* *with*  
*purple*; *tip* *of* *lip* *longer* *more*  
*slender*. *Nar.* *Schraeder*, *Ind.* *Blanch.* *T. 545*  
*P.* *T. 36*. *Ac.* *illustr.* *Recht.* *in* *figs.* *Cham.*  
*1882*. *figs.* *5* *and* *6* *robust* *form* *with* *longer* *slender* *leaves*  
*marked* *with* *purple*, *and* *erect* *tip*  
8. *Ac.* *Lindl.* *in* *Well.* *Bot.* 7319; *figs.* *Orchid.* 239;  
*middle* *of* *lip* *large* *broadly* *ovate-oblong*  
*obscure* *3*-*lobed* *crenate* *or* *toothed*, *spur* *v.* *short*  
*obtus.* *Ac.* *Lindl.* *in* *figs.* *16* *and* *17*!







27 MONDAY [147-218]

12. *Ac. linearis*

Root of stem above about leaves but by  
of stem very irregularly 2 lobed, perianth  
long green, slender, branched, longer  
than leaves, flowers in axils. Pedicels  
linear, slender, rose color, 5-6 lobed  
linear, slender, white, 5-6 lobed

*Decaspermum* *linearis* (Hornem.) Heyn.  
Southwards 15.51-7500 ft. height etc. Bayla  
in the Southern district of China  
as far as I can judge  
*Ac. linearis* is with difficulty distinguishable  
from *Ac. radicans*, except by the more  
slender very few branched perianth

28 TUESDAY [148-217]

Trinity Low Sittings begin.

of *Decaspermum linearis* is found. The specimens  
of this site preceding may be mixed.  
*Decaspermum linearis* leaves linear, keeled. The blade of  
lip incurved, but seen at much larger size  
later.

13. *Ac. odoratum*

*Ac. odoratum* (L.) Hook. & Grev. *Thymopappus* (L.)  
Drop. *Thymopappus* (L.) *Thymopappus* (L.)  
J. & H. *Thymopappus* (L.) *Thymopappus* (L.)  
of *Decaspermum*. The *Conium*, *Keyne* in *West* *Roll*  
of *Decaspermum* *linearis* - look like *linearis*.

14. *Ac. maximimum*

*Ac. odoratum* in the mid lobe of the lip  
being longer + emarginate. *Ac. Reichb. hirsuta*  
*Reichb. hirsuta* *Reichb. hirsuta* 1888. *Ac. nobile*,  
*Werner del. Orchid. Ser. I. T. II.* *Ac. Rohanianum*  
*Reichb. in f. d. Thon. 1884. 1206.* *Ac. flavum*  
*Reichb. in f. d. Thon. 1885. II. 198.* *Persea* + *Bernea*.  
Said to be the sweetest scented species of the  
genus, but more definite characters are wanting  
to distinguish it from *Ac. odoratum*. The sepal  
+ petals are rosy with often darker tips, the  
spur yellow, more red. *Ac. Ballantianum* is  
an early flowering form.

15. *Ac. Emmerian*

*Reichb. in f. d. Thon. 1882. 586.* lobes of leaf  
long narrow subulate, sepal large etc.



30 Days—July 1.

60 Days—July 31.

90 Days—Aug. 30.

MAY, 1918.

5th & 6th Months.

29 WEDNESDAY [149—216]

MAY, 1918.

29 WEDNESDAY [149-216]

908. is undeterminable

the decumbent, leafy, erect to 360, f. without droop  
is: Plant erect. To 3-4 in. long. 1/2 in. wide in  
center. 1/2 in. thick. 1/2 in. thick. 1/2 in. thick.

elliptic, acute, narrow, palmate, several,  
 short-stemmed; leaflets small, triangular  
 petioles with wing. Spine erect; flowers 2 in  
 diam; lateral sepals v. broad, obtuse. This  
 has the flabry of *Phalenopsis*

*Lampetula*, *Michx.* sp. pl. IV. 10 is in det.

*Le. repandum* Reiche. 1  $\frac{1}{2}$  feet. blue. 1000. 1466-  
 many corals white 2 lobes 1 white

ascending, sepals 5 petals 5, sub-equal oblong  
lobes of lip 3, the middle one the largest  
triangular, spur 1 1/2 inches long, curved  
ascending tooth in the middle of cavity.

Re. mendalis, Gennep's orchid, T-xxx,  
without description, probably Re. talant.

*Ac. Pachyphyllites*, *Reicht.* in *Land. Ochr. 1840.*

1. 230. leaves show good yellowish green. Ovary white.  
2. lobes, raceme show good yellowish green, sepals to  
the shorter petals oblong. Ligulate obtuse  
lobes, inside lobes of lip, and throat  
gules show, middle lobes purple triangular  
upper white cylindrical lobes inflated longer  
than the pedicelled ovary, column white.

Al. Rigidum than of and in Res. Cyclop.  
xxx 1x 9. 12. is undeterminable.

59. *Seneciothera* "Rm

leaves acid 2 1/2 in. flowers large 2 1/2 in diam

rigid in lateral spreading panicle. Sepals



31, FRIDAY [151-214]

[illegible]

JUNE 1 SATURDAY [152-213]

Interest payable on £5% War Loan 1929-1947.  
S.B. 3.52, S.S. 8.4.

S.P. 3.52, S.S. 8.4.

*R. historica*. Reich f. in Gard. Chron. 1878 1170  
low, leaves lanceolate acuminate, 4-5  
deeply 3-lobed, sepals & petals cream  
obtusely acute, lips 3 fin, side lobes triangular  
middle lobe ligulate acute with 2 incurved  
triangular & quadrate lamellae at its base,  
spurs show. conic - Singapore? & Malacca?  
Hort. Eng. Flowers yellow purple spotted  
& margined, lips white, side lobes  
rich purple, spurs orange, column yellow & purple  
the finest species with acuminate leaves.  
Perhaps from Reich - L. C.

60. Nanda, Br.

Epiphytes: stem leafy. Leaves very coriaceous  
or fleshy, flat <sup>Sunday [155-212]</sup> or terete. Flowers usually  
large, highly coloured, in simple lax or dense  
racemes. Sepals & petals sub-legal, spreading  
or incurved. Lvs narrowed, Lvs large,  
base usually sessile or spinate, side lobes  
large or small (rarely 0) foliaceous or fleshy  
the base or spine; mid-lobe various, fleshy

B2-39/37







5 WEDNESDAY [156—209]

*Leimispriana*, Benson & Reich f. in field. 1969, 5281  
peduncles v. short, flowers in diam, white  
sepals & petals, waxes & twisted, interior sepals.



69 BILLS DUE WITH GRACE.  
30 Days—July 10.  
60 Days—Aug. 9.  
90 Days—Sept. 7.

JUNE, 1918.

6th Month.

7 FRIDAY [158—207]

Larger broadly ovate, pale yellow, slightly  
petals clavate, slightly reflexed, tips  
apical, side lobes large subquadrate, middle  
partially on with two white lines diverging to  
recurved terminal lobes. Red. May. T. 5811.  
Densisserris: at Ancon, Panama, American  
Island, short. Leaves 5-10 in. deeply, usually 2-lobed  
peduncle short with leaves 10 in. pedicel  
with 2 in. middle of lip subrounded  
side, a V-shaped terminal notch, disk with  
5-10 in. ridges, side lobes concave, with  
orange streaks upon white ridges within. Length  
3-5 in. clavate, apiculate.

8. V.  
Blussoni

Oct. in Red. May. T. 5611: leaves narrow peduncle  
tail inclined inward, fls. flowers 1/2 in diam,  
sepals + petals dull yellow, apical tips  
lateral sepals broadly ovate, apical tips  
obovate, lip, recurved as deeply lobed, side  
lobes triangular-ovate, much smaller than the  
pendulous middle lobe which has 2 broad  
recurved terminal lobes. Reichb. f. Xen. Orchid.  
Leaves near Panama. Densisserris: as  
underneath. Stem short; leaves 4-6 in  
oblique, truncate, with peduncle mid the  
veins 18 in; middle of lip with 3 obtuse  
ridges; apical notch.

8 SATURDAY [159—206]

New Moon, 10.3 P.M. S.S. 47, S.S. 8.11.

Very new  
Densisserris: flowers such an elegant  
quite different in colour, sepals, stained, middle  
of lip contracted, the terminal lobes  
recurved. A form with brown flowers. fig. 4 by  
Paris called this may be a new or Densisserris  
(see end of genus).

9. V.  
Parishii

Reichb. f. in Gard. Chron. 1867. 180 with fig;  
leaves broadly ovate, 2-lobed, peduncle short  
at base erect, bracts large, flowers 2 in diam, fleshy  
apical tips, narrow brown or purple, lateral sepals  
broadly ovate-oblong, subobovate, petals apiculate  
lip 1/2 in long, the sepals, side lobes  
recurved, middle small, curved, flabelliform  
Reichb. f. Densisserris 138.

Densisserris: at Ancon, Panama, v. short  
stem. Leaves few, 5-10 in. by 2-3 in. Peduncle  
v. short; bracts 6-8 in. drooping, 6-8 fls; bracts  
recurved; flowers variable in colour, the  
characteristic of the flower leaves are not those of  
Vanda proper, more resembles Stanhopea or  
Arachnantes. In var. curvirostris, Reichb. f.  
in Gard. Chron. 1880. 74. The sepals + petals cream  
the side lobes ylls. lip white with narrow stripes + 2  
yellow blotches below the column, the middle lobe is  
coramine. In var. purpurea, R.S. Br. in Gard. Chron.

9 Sunday [160—205]

and after Trinity.

1883, 207



10 MONDAY [161-204]  
Ramadan begins.

*bicolor*

Stem 1-2 p. climbing. Leaves 6-8 in, narrow, complacent. Peduncles 6-8 in 6-10. fls sepals a petals yellowish-green or blue except for the characteristic brown nerves, margins white; lip half as long as the sepals or more, depth of middle lobe usually with fleshy ridges + white margins. a narrow line; spur occasional - light in fund. Phos. 1883. 1.9 describes a var. *lightiana*, with purple lip, the side lobes with more or less developed anterior teeth. The colouring in the *St. A. Serresii* T. H., is unlike that of any I have known to me. Rolph distinguishes this *C. tessellatum* from his *C. tessellata* by the 1 inner lobe of lip in *C. tessellata* is curved into a tight cleft, the 2 tapering entire acute; whilst in the latter the lip is channelled above,

11. V. *Rolphburghii*

Br. in Arab. Sup. 506; leaves prostrate, narrow, complacent, flowers 1-2 in diam, tessellated with brown, sepals, petals, rudimentary, closed obovate, small lip narrow, lobes small, side lobes small acute, middle lobe panduriform, tip truncate. *St. A. Serresii* T. H., 1883. 1.9 describes a var. *lightiana*, with purple lip, the side lobes with more or less developed anterior teeth. The colouring in the *St. A. Serresii* T. H., is unlike that of any I have known to me. Rolph distinguishes this *C. tessellatum* from his *C. tessellata* by the 1 inner lobe of lip in *C. tessellata* is curved into a tight cleft, the 2 tapering entire acute; whilst in the latter the lip is channelled above,



30 Days—July 15.

60 Days—Aug. 14.

90 Days—Sept. 13.

JUNE, 1918.

6th Month.

12 WEDNESDAY [163—202]

12. *V. densiflora* Lindl. in *Pact. Bl. Genl.* vol. 7. 42. 2nd. Orch.  
 flowers truncated, apices, lip cuneate tip  
 shortly obtuse 3-lobed; 2  
 prominent ridges descending into apex.  
*D. coelestis* gigantea, Lindl. etc.  
 Pohn; at Pohn, Bellid. Pangoon, Bhamo.  
 stem short, as thick as child's wrist; roots  
 2-4 in. Leaves 1 1/2 - 2 in, v. thick, channelled, lobes  
 acute; ped. 1/2 - 1 in, v. short, stout; raceme 8-14  
 in, cylindrical; v. dense, flowers 1-1 1/4 in diam  
 with a few purple spots at base of petals  
 lip fleshy, white with light purple  
 terminal lobes; spur short, inflated,  
 pointed backward.  
 Seed-III. Cristatae. Raceme shortly peduncled  
 few fls, pedicels decurved. Sepals & petals  
 undivided. Strap. of pollinia v. short,  
 gland large. Inflorescence of flowers of *Luigia*  
 has habit of foliage of *Vanda*.
13. *V. cristata* Lindl. in *Wall. Cat.* 7329. Gen. esp. Orchid.  
 sepals & petals narrow yellow & green, side  
 lobes of lip erect triangular, midlobe  
 subpanduriform golden striped purple  
 tip with 2. divaricate spindle-shaped lobes  
 & an intermediate depressed one spur  
 conical. v. striate. Bellid. 1. 42. Orchid. *Acride*  
*cristata*. Wall. cat. 7329. *Acride* sp. *giff. itii* etc.  
 Tropical Trinidad; from Pangoon to Bhamo, Sikkim  
 Bellid. 8. 5. A. & T. T. stem 3-6 in. v. stout. Leaves  
 3-5 in, rigidly coriaceous, recurved keeled,  
 truncate & toothed. Raceme equalling or shorter  
 than leaves, v. stout, branched; pedicels with  
 v. long, stout; fls. 1 1/2 - 2 in diam; side lobes of  
 lip acute truncate & toothed, midlobe as long as  
 sepals; spur short, obtuse. Capsule 2-2 1/2 in narrow  
 clavate



14 FRIDAY [165--200]

15. V. Hook. f. sepals & petals narrow, yellowish  
 purple or white, side lobes rounded, middle  
 lobe broader, oblong-ovate, obtuse, pale streaked  
 with purple, spine conical, long as the  
 mid-lobe. *V. cristata*, var. *hillii* D. L. Oakes  
 Sikkim & Bhutan Himalaya alt. 2000 ft.  
 Dr. Walther on herb. (ent.) A smaller species  
 than either *cristata* or *alpinum*, with lip  
 lobes, but furnished with a long, conical spine  
 a sepals & petals, white. That of Calcutta  
 with the labellum only 1.5 in long, & sepals &  
 petals yellow. Little is known from Hongkong  
 in Sikkim.

V. ~~Parishii~~ Reicht. ex a. br. in ill. 139, leaves long  
narrowly elliptate acuminate, flowers as  
large as in V. consolor. (by China) olive with  
sepals & petals emarginate, oblong, slightly acute  
lip & column pale yellow, st. white, side  
lobes semi-rotund, middle 2-lobed  
retuse apex acutely conical. Parish  
There is a drawing of Reicht. by Parish of what may  
be this species named V. tristis. var. n. 3.  
The perianth is brown on both surfaces, lip  
white.

16 Sunday [167-198] (all V. Parishii)  
1st after Trinity. 1st. (Mar. 19, 1.12 p.m.)

6 Sunday [167-198]

V. *Stangana* Reicht. *for* *Red. Jail* 8/1 (1858) 351; *ethi*  
*B.V. fusco-viridis*, *an* (or *gave*) *auricles*  
*lip* *ovate*, *divergent*, *blade* *gradually*  
*narrowed* *for* *a* *broad* *semicordate*  
*lip* *slightly* *a.* *lobed*, *a* *pair* *of* *small* *calli*  
*before* *the* *mouth* *of* *the* *apex*, *dorsal* *apex*







19 WEDNESDAY [170-195]

- Sec. I. *Microanthus*. Leaves flat, linear, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.
- Sec. II. *Calceolaria*. Leaves linear, flat, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.
- Sec. III. *Acrocheilum*. Leaves linear, flat, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.
- Sec. IV. *Platyrrhizon*. Stem erect, root short, leaves linear, flat, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.
- Sec. V. *Distichochlophylloides*. Stem erect, root short, leaves linear, flat, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.
- Sec. VI. *Sparganium*. Stem erect, root short, leaves linear, flat, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.
- Sec. VII. *Uncifera*. Stem erect, root short, leaves linear, flat, glaucous, sessile, upper ones in a single row, lower ones in two rows, apex long, obtuse.







*S. John Baptist. Midsummer Day.*

Full Moon, 10.38 a.m.

5. S. ? Herb. stem rather stout, leaves 3 in,  
inconspicuous. nearly straight, obtuse, flowers  
small shortly peduncled clusters, sepals +  
petals broadly oblong acute, lip about  
1/2 of lvs. hemispherical margin entire (and lobed)  
specimens from ... ..  
margin of the hypochile. cylindrical narrow  
stems 6-8 in long (as in herb. Calcutt.)  
which are erect, interlaced, flaccid  
leaves rather more elongated, glaucous, 2 in.  
long, not filiform. flowers slightly curved  
shortly pedicelled, pale green; sepals & petals  
subequal, spread, recurved, lip about  
as long as the sepals; hypochile green  
apert, with purple, large, the size  
of all hypochile, apert, as long  
as the hypochile, flat, as long as  
hypochile, flat, apert, column short,  
D. of throat 1/2, corollum not bearded;  
anther broader than long low, pollinia  
globose, strap short, gland ovate. The tip  
is dilated by ... ..  
from the drawing in the Calcutt. Herb.  
leaves flat or channelled  
higher than sepals. see also 16







30 Days.

JUNE, 1918.

JUNE 26 to 30.

28 FRIDAY [179-186]

78

9. *gracile*

Stem 1-2 in. Leaves few, clasped 2-3 1/2  
linear-lanceolate acuminate, racemes slender  
racemes 2-3 in. long, flowers small, white  
petals 1-2 in. long, sepals 1-2 in. long  
bracts minute, linear-lanceolate  
racemes 2-3 in. long, flowers small, white  
petals 1-2 in. long, sepals 1-2 in. long  
bracts minute, linear-lanceolate

10. *brevisolia*

Stem 1-2 in. Leaves few, clasped 2-3 1/2  
linear-lanceolate acuminate, racemes slender  
racemes 2-3 in. long, flowers small, white  
petals 1-2 in. long, sepals 1-2 in. long  
bracts minute, linear-lanceolate  
racemes 2-3 in. long, flowers small, white  
petals 1-2 in. long, sepals 1-2 in. long  
bracts minute, linear-lanceolate

11. *rostrata*

Stem 1-2 in. Leaves few, clasped 2-3 1/2  
linear-lanceolate acuminate, racemes slender  
racemes 2-3 in. long, flowers small, white  
petals 1-2 in. long, sepals 1-2 in. long  
bracts minute, linear-lanceolate  
racemes 2-3 in. long, flowers small, white  
petals 1-2 in. long, sepals 1-2 in. long  
bracts minute, linear-lanceolate



79  
30 Days—Aug. 3.  
60 Days—Sept. 2.  
90 Days—Oct. 2.

BILLS DUE WITH GRACE.

JULY, 1918.

7th Month.

1 MONDAY [182—183]  
(Last Quarter, 8.43 a.m.)

Flowers in long, narrow, dark  
in the lower part, after short  
glandular. Capsule long, narrow, pedicel  
flourish, leaves long, narrow, deeply  
oblong, 2. cleft, rachis deep red, sepals  
upper long, lower short, all infundibular  
resembling the shape of the capsule with  
Democarpus, as in Democarpus, Paris  
Stems in clusters, leaves long, narrow, dark  
green with yellow veins, apiculate, between  
nodes, long, narrow, deeply grooved. Raceme  
from the base of the stem, with the slender  
scape 4 in, bracts small, rounded; flowers  
4 in diam, pale yellow, corolla  
rotellum large, 2 lobed, apparently fleshy  
the remarkable species with the pollinia  
approaching that of *Acacia* (a y  
Stachys, *Stachys*, Paris, having no  
trace of a middle lobe to the lip, described  
from a beautiful drawing by Reich, who  
observes that there is no apparent septum  
in the spur. Reich had the drawing  
named it *beccabunga* (see note),  
alluding to the chadly-like rotellum, but it  
is not the plant he described under  
that name (see *Flora* 1871, p. 1). It closely  
resembles *Sarcantha* Parisian, but the  
flowers are yellow. There is no middle lobe  
of the lip & no septum in the spur.

2 TUESDAY [183—182]

Paris & Reich. In *Flora* 1874 (1874) 197  
away; stem very short, leaves crowded  
oblong, obtuse, v. thick, raceme shortly  
peduncled, decurved, many & dense fls.  
flowers rose-red, lateral sepals ob-obl.  
petals linear-lanceolate, long, lip large, accrete  
base suddenly contracted into a decurved  
tube, longer than the sepals, with an  
inflated tip, which abruptly subspherical  
fleshy acute toothed towards the tip. Paris  
Reich. 1. This resembles 41. *Democarpus*, *Democarpus*  
Stems 2 in. Leaves 3-4 in, bases closely  
reticulate, deeply channelled. Raceme as  
long as leaves. Flowers about 10 in long,  
color of violet. Lip twice as long as sepals,  
with a cleft as the insertion of the tumid straight  
black; lobes 2, short, round, acute, rather with  
a recurved tip; pollinia globose, sessile on the  
long end of yellow strap, plant lanceolate and  
longer than strap. (rarely equal) The apical



3 WEDNESDAY [184—181]

B2-39/++







● New Moon, 8.22 a.m.

B2-29/45







31 Days.

JULY, 1918.

JULY 15 to 18.

17 WEDNESDAY [198-167]

City and Boro' voters must Pay Poor Rate before 20th or lose vote

24. S. *bellinum* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
25. S. *obliquum* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
26. S. *trigibbum* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
27. S. *acule* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
28. S. *acule* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
29. S. *acule* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
30. S. *acule* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.
31. S. *acule* Right. in Bot. Mag. T. 5766; O.H. Hanbury 43.  
 stem short, leaves oblong, 2-4 in. long, 1-2 in. wide, base cuneate, apex obtuse, flowers large, white, with pinkish tinge, petals narrow, whole cold, all (in O.H. Hanbury) yellowish, lip white speckled yellow. The pharynx specimens have the shorter leaves of *trigibbum*.







34 *S. congestum*. Herb. stem short v. stout, leaves 6-8 in  
broad white acute, inflores. crowded,  
limb of lip rhomboid, acute-ang., spec.  
shortly lobed or puccate lobes within.  
S. papillosum aff. w. y. l. b. P. campe congest.  
Linn. Name congesta, Bar. Pap.



JULY, 1918.

7th Month.

24 WEDNESDAY [205—160]

35. *S. P.* *lill.* in *you* *loc* *iii* 36. *leaves* 1-2 1/2 in  
*viridiflorum*. *seems* *shorter* *than* *leaves* *subcylindrical*  
*apex* *acute* *glabrous* *within* *parallel* *file*  
*blade* *of* *the* *lip*. *Microperla* *viridiflora*.  
*the* *southern* *concomitant* *in* *the* *western* *flats*.  
*Bay* *and* *Bar*. *Platyphium*. *loc* *iii* *in* *the* *western* *flats*.  
*leaves* 1-2 in *long*. *raceme* 3-5 *fls*; *bract*  
*short*, *round*, *obtusate*, *flowers* 1/2 in *diam*  
*greenish* *white*; *lip* *obovate* *with* *rose-color*  
*blade* *obtusate* *d* *as* *the* *mouth* *of* *spur* *which*  
*is* *encompassed*, *broadly* *depressed* *platelliform*  
*membranous*, *outer* *margins* *crenulate* *of* *this*  
*side* *lobes* *free* *intended*, *spur* *is* *short*, *conical*  
*recurved*.

25 THURSDAY [206—159]  
*S. James*

36. *S. P.* *lill.* *leaves* 1-6 in. *raceme* *oblongate*  
*maculatum*. *much* *longer* *than* *leaves* *obovate* *many* *fls*,  
*spur* *obtusate* *villous* *within*. *Microperla*  
*maculata* - *only*. *Saxatilis* *maculatus*.  
*Bar*. *in* *the* *western* *flats*. *Platyphium* *iii* 5 & 5.  
*the* *southern* *concomitant* *in* *the* *western* *flats*,  
*with* *the* *stocks* *Platyphium*.  
*leaves* 1-2 in, *long*, *linear* *oblong*,  
*crenulate* *oblong*, 2-lobed. *Raceme* 8-12  
*or* *shortly* *peduncled*, *bracts* *short*, *round*, *red*,  
*stems* *flowers* 1/2 in *diam*, *subsessile*,  
*sepals* *petals* *yellow* *with* *central* *purple* *spur*,  
*lip* *white* *to* *rose* *to* *red*; *blade* *obtusate* *below*  
*about* *of* *the* *short* *saccate* *obtusate* *spur*, *which*  
*is* *overlapped*, *is* *coriaceous*, *entire*; *side* *lobes*  
*conate* *below*, *narrow*, *direct* *or* *recurved*.  
*Capsule* 1 1/2 in, *frutiform* 6-ribbed - *allies*  
*is* *thick* *to* *is* *viridiflorum* *and* *a* *paracochilus* *to*  
*which* *Bertham* *has* *referred* *it*.  
*Bar*: *V. tristichia*.

37. *S. P.* *lill.* *in* *you* *loc* *iii* 36. *leaves* 1 in *lanceolate*  
*distichum*, *acuminate* *or* 2-3 *cuspidate*, *peduncle* 2-3 *fls*  
*sepals* *petals* *ob. obl.*, *lip* *with* *a* *saccate* *subhemis-*  
*spheric* *spur*, *middle* *small* *reniculate* *fleshy*  
*line* *with* *a* *diagonal* *line* *in* *the* *center*.



31 WEDNESDAY [212—153]

*Trinity Law Sittings end. Annual and Nov. to July  
Game Certificates and Gun Licences expire.*

385

Techniques, Book of De Pl. med.

Sect. VI. - Specimens.

39. *S. Lindl.* in wall. Cavity 2 in. Leaves very erect,  
 ampullaceous, mostly 2 in. or more, a broader, rounded  
 subcordate, shorter than broad, apex obtuse.  
 Petioles 1/2 in. long, broad at base.  
 Stems 1-3 in. w. - in rapid growth. Silicles  
 numerous, branching, 2-3 in. long.  
 Leaves 2-6 in. long, 2-6 in. wide, deeply channelled  
 beneath, shiny above, cylindrical; bracts  
 minute; flowers 3/4 in. diam. - red; sepals  
 also broadly ovate, widely spreading;  
 petals longer than broad, white, 1 in.  
 subcordate, angles acute, pedicels 1 in.  
 Lindl. in *Proc. Soc. Bot. Camb.* 1830, p. 100, probably  
 refers his *S. rubra* to this instead of to *Cornifolia*.

140. *S. Hill.* in <sup>AUG</sup> <sup>THURSDAY</sup> [213-152] <sup>Lammas Day</sup> *lines strongly recurved*  
*curvifolium* very narrow, *achenes* much shorter than *bracts*  
*apex* straight. *S. rubrum*, *Hill.* *S. crinitum* *Hort.*  
*(S. & Hill.)* *Ascan;* *S. in* *Hort.* *Cal. a* *Bar.*  
*velut* *diff.* *trib.* *gave.*  
*N. closely* *allies* *to* *S. angullicum*, *but* *leaves*  
*twice* *as* *long*, *much* *narrower*, *though* *recurved*  
*the* *flowers* *are* *scabrous* *with* *golden* *hairs*. *The*  
*stamens* *of* *yellow* *filaments* *as* *broadly*  
*triangular* *in* *outline* *is* *slender*. *Hill.*  
*habitat* *of* *Beylon* *is* *no* *doubt* *an* *error*, *a*  
*reparable* *to* *the* *cultivator* *specimen*; *or* *an*  
*achenes* *may* *have* *been* *intended*.

161 S. *Reichb. f. Hart. Fenzl. 1859.* leaves  
trichotomous spreading obtusely 2-lobed, racemes much  
shorter than leaves, flowers subsessile, spreading  
incurved. S. yellow. Hindl. (not Cathcart) in g. l.  
Sikkim: Himalaya (Dr. Cathcart) Photan  
(Dr. in Herb. Calcutt). Stem 1-3 ft. Leaves 2-4 in  
broad. Racemes 3-5 in, lax fls, shortly peduncled  
pedicel with ovary  $\frac{1}{2}$  in sigmoid; sepals l. oblong  
ac. a broader shorter petals yellowish-white  
with a red cost and white speckled pink; apex 2-3 in long, hornlike  
lind above, a l. e, with a flattened hooked call  
as the



30 Days—Sept. 4.

60 Days—Oct. 4.

90 Days—Nov. 2.

AUGUST, 1918.

8th Month.

[illegible]

2. *Proh. 10* *flav. rad.*; leaves linear, *ov.*  
 3 SATURDAY [215-150]  
 S.R. 1.27, S.P. 7.44.  
 long, lanceolate, oblique, acuminate,  
 raceme short, lvs. cymbiform obtuse, spur  
 none; tips acute. Multifera acuminate  
 slender, jointed. Nov. 10 40.  
 Subkind *Spinalaya*. alt. 6-7 *ov.* fr, pale  
 bluish white, faintly *res. distal* etc.  
 A much smaller, more slender plant than  
*S. obtusifolia*, with narrower, shorter leaves  
 a shorter raceme, & yet less curved spur  
 flowers about same size & color, but spur  
 not as long or so much incurved, gladd in  
 yellowish green. Capsule? 4-1 in curved  
 pyriform, shortly pedicelled.

Clavatum, Willd. Sp. 1. p. 1. Calloscent, pendulous leaves  
linear, clavate, thick, leaf-opposed  
ly inflated beneath. East India on trees.  
It is impossible to say what this is, it had  
been suppressed.

8. *Barypogon* Kunth Gen. & sp. orchid. *acides barypogon*  
*Epidendrum umbellatum*, Ham. slender,  
 leaves ov-ob-ac. oblique 2-toothed corymbs  
 subumbellate, sepals & petals in-curved



5 MONDAY [217-148]  
Bank Holiday.

8. *Sedha*, *Reichb.*

...oblong stem without flower red within  
...white ... red ...  
...toothed ...  
...oblong ...  
...as in ...  
...apical ...  
...middle ...  
...spotted red.  
...cultivated ...  
...to be a distinct large ...  
...dentate ...  
...middle ...  
...intermarginal lamellae  
...apice lobosis ...  
...as in *A. dentata*, ...  
...intermedia ...  
...multiplex ...  
...papillous ...  
...2-lobed, ...  
...concolorous, ...  
...between the ...  
...will be ...

TUESDAY [218-147]  
New Moon, 8.30 p.m.

...65 ...  
...characters of ...  
...2 ...  
...with ...  
...by a vertical ...  
...species ...  
...the ...  
...new genus ...  
...I should ...  
...the only ...  
...its species ...  
...of the ...  
...not ...  
...the ...

\* Leaves elongate, filiform.  
1. ... in ... 1842, leaves 8-10 in ...  
...long ...  
...petals ...  
...base 2-lobed, ...  
...mid lobe ...  
...at the base, ...  
...Himalaya, ...  
...Himalaya, ...



95  
30 Days—Sept. 9.  
60 Days—Oct. 9.  
90 Days—Nov. 8.

AUGUST, 1918.

8th Month.

7 WEDNESDAY [219-146]

2. 8.

Williamsoni

Herb. 1. in diam. (Gentry, 1865) in fruit. An  
climber 4-5 m. racemes long leafy many fls.  
sepals ovate-oblong, petals smaller, subrotate  
side lobes of lip erect oblong obtuse-subulate  
midlobe shallowly 2-lobed, blackish, lobes  
acuminate, apex glabrous.  
Dioscorea, as Dioscorea, fruit. Andaman  
stem 1/2 in diam, thick, green, glabrous.  
leaves 1/2 in diam, curved, obtuse.  
racemes 6-8 m; slender, sometimes branched  
bracts ovate-lanceolate; flowers 1/2 in diam  
pedicelled, anthesis; lip with a narrow  
lamella from the base of the lip downward  
to large lobes pubescent dorsal callus;  
lobes glabrous; pollinia v. minute subglobose  
strap broad obcordate (at anthesis slender in fruit)

8 THURSDAY [220-145]

3. 8.

appendiculata

Herb. 1. leaves 3 in, racemes short few fls.  
sepals oblong, petals smaller, subrotate  
side lobes of lip triangular acuminate,  
midlobe short, glabrous, column pubescent  
base in front, apex funnel shaped  
slightly curved, obtuse. D. tetrapetala, R. B.  
in diam. 1/2 in. (as of Lindl. Dioscorea appendiculata  
Dioscorea, which Dioscorea as Dioscorea, R. B.  
stem 1/2 in diam, thick, green, glabrous, rigid. leaves  
1/2 in diam, obtuse. racemes 1-2 m; bracts minute  
pedicels short; flowers 1/2 in diam; petals  
sepals simple, green. lip rose-pink  
upper 2-lobed lobes middle by a lamina  
ascending from the base of the midlobe  
dorsal callus v. large, lobed, pubescent at base  
under show; pollinia v. large, strap broadly  
triangular ovate v. narrow. tetrapetala, R. B.  
but flowers v. small smaller & apex longer.  
leaves flat or chartaceous.

4. 8.

Dioscorea

Herb. 1. stem elongate scandent or pendulous.  
Dioscorea, R. B. 1862.



31 Days.

AUGUST, 1918.

AUG. 7 to 11.

9 FRIDAY [221-144]

5. 8. *Peninsularis* leaves 1-6 in. flowers deflexed, sepals  
oblong obtuse, side lobes of  
corolla erect, slender, filaments  
erect, anthers connected above  
middle. in form like *Sac. 4134*; 3 perianth  
bracts. *Sacculobium* a common plant in the  
occasional *Peninsularis* on the flat for Corcoran to  
Tranconore Bay, in Safford's district.  
Stem 10-12 in, as thick as duck's quill,  
fleshy, perianth  
6-8 in, rigid, strict or curved,  
5-6 nerved, acuminate, tip obtuse, sheath  
ribbed. Racemes slender, bracts minute;  
flowers 4 in diam, greenish, with  
pink margins & violet lip; sepals open  
& spreading, anthers more or less perfectly  
2 celled dorsal cells small, column short  
anthers beaked, pollinia didymous, strap  
slender, dilated upwards, gland small.  
Capsule 2-3 in, deflexed, narrowly oblong.

6. 8. *Reichb. f. in Bot. Zeit. 1857*. leaves many  
resectate, 2-3 in, oblong amplicaul, apices  
short stem. *Sacculobium* 143  
petals ovate-obt, rounded,  
middle lobe triangular, bracts fleshy  
open show broadly conical.  
Altham; as *Ramkutt*, 8, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 488, 490, 492, 494, 496, 498, 500, 502, 504, 506, 508, 510, 512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 616, 618, 620, 622, 624, 626, 628, 630, 632, 634, 636, 638, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758, 760, 762, 764, 766, 768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886, 888, 890, 892, 894, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000.  
Stem a few upward, robust, scandent  
thicker, then a good deal. Leaves  
subhirsute, oblong-obtuse, 2-toothed  
with sometimes an intermediate granular,  
thickly coriaceous. Spikes 2-3 in, sessile;  
bracts small, deciduous; flowers 1/2 in  
greenish yell. striped red. brown; lip white & pink  
or purple, middle lobe 5-6 in or acuminate, apex  
recurved, mouth with a pubescent  
dorsal callus large; column 10. show, stout  
tip reclinata & mid uncinata recurved arms  
anthers truncate, pollinia 18-20, didymous,  
strap show v. broad, gland transverse.

11 Sunday [223-142]

11th after Trinity. Half Quarter Day.

7. 8. *Leul* in Bot. Rep. 1940. size 78 in from Lim Saxiii.  
petals leaves 10-14 in. bracts flat, perianth v. large, corolla  
branched leafy many-fl, sepals & small petals  
oblong obtuse, side lobes of lip triangular acuminate  
middle lobe a small incurved ovate acute fleshy  
leaf

82-39/50



AUGUST, 1918.

8th Month.

12 MONDAY [224-141]

Grasshopper Shooting begins.

sp. a cylindrical obtuse. S. ...  
Reichb. f. ...  
Seccolobium racemiforme, Reichb. f. ...  
Aeris racemiforme ...  
Elat. repul. ...  
etc. ...  
... roots & stons.  
...  
obtusely 2-lobed, ...  
2-3 ft. branches low ...  
well-lanceolate ...  
pedicel with ...  
sepals ...  
yellow; lip white ...  
do long ...  
dorsal callus 2-lobed ...  
rostellum obscure ...  
pollinia oblong strap ...  
Capsule ...  
specimen has shorter leaves & an ellip. ...  
capsule.  
TT Stem short ...

9. S. Reichb. f. in Bot. Zeit. 1864. 298. Leaves linear  
crinaceous ...  
than. Leaves ...  
hirsute, ...  
white, ...  
ovate-obl. obtuse; ...  
occate. Bot. Zeit. 1864. 298. S. Stenochlamys  
Bates, ...  
stem ...  
claw ...  
coriaceous. Racemes 4-6 in, rachis slender  
purple; bracts minute. Flowers 2/3 ...  
coriaceous pedicel with ...  
lobes of lip with acute outer angles, ...  
with a ...  
broad plate ...  
the base of ...  
didymous; ...  
decumbent, base broad; anther long beaked  
strap of pollinia ...  
10. S. Reichb. f. in Bot. Zeit. 1886. 378. in ...  
laxus ...  
raceme ...  
petals ...  
middle ...  
conical ...  
stem ...  
2-lobed ...  
slender, ...



14 WEDNESDAY [226-139]  
First Quarter, 11.16 p.m.

11. S.  
Parishii

Herb. Bot. Aug. 5, 1918. Leaves 4-6 in. long, rounded, slightly obtuse, 2-3 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Sepals narrowly ovate, 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Petals 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Stamens 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Pistil 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Fruit 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Seed 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base.

15 THURSDAY [227-138]

12. S.  
longifolia

Parishii. Leaves 4-6 in. long, rounded, slightly obtuse, 2-3 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Sepals narrowly ovate, 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Petals 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Stamens 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Pistil 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Fruit 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base. Seed 1-2 in. long, 1-2 in. wide, rounded, midrib broad, veins straight, recurrent, apex longer than base.



13. S. *Oxyphyllus* *Wall. & Gilg* *Reichb. f.* 1840. Leaves 6-12 by 16 FRIDAY [228-137]  
acuminata, racemes short  
dense, flowers sepals obl. obt., petals smaller  
oblong, inside lobes of lip acuminate  
middle small, lower incurved, upper much  
longer than sepals into a slender tubular  
floristoma subulate, blue Aug. 362.  
Epiphyllum perianthiformis, Whitcomb in Cal. Soc.  
Scienc. 1893. Leaves short, thick, coriaceous, margins recurved  
narrowed to both ends. Bracts minute, acute, flowers  
dual purple, with yell. cal. & margins, perianth  
large, obtuse, slightly below middle dorsal  
callus large lobed; column rather long, rostellum  
minute; anther acuminate, pollinia didymous  
strap. s. slender, gland minute. Near S.  
purpuriformis. Reichb. f. in Bot. & Zool. Gartenzeit.  
but the change is that the horizontal lines  
much longer. Reichb. f. says the oxyphyllus is nothing  
but a narrow leaved var. of the Chinese  
S. rostratum, but as noted under secundus  
there has been a misapplication or transposition  
of Wallich's name of oxyphyllus by him or  
Wallich.

Species. *oxyphyllus* *Wallich*

S. *acutius*. Reichb. f. in Gard. Chron. 1869. Stem 5-  
lesser 3 in straight stem terete so thick as  
quill, raceme small deformed many fls. bracts  
triangular not half length of pedicelled ovary  
flowers small perfect lip long sepals  
oblong, petals ligulate obtuse, acute, lip 3 pi  
nate lobes obtuse - angled, pointed in middle  
middle triangular gland yellow. perianth  
retrograde with an erect lanceolate gland  
callus under the column, column slender velvety  
at angles of lip near its base. Assam. Diff.  
as if made by him.

S. *asperum*. Reichb. f. in Gard. Chron. 1869. Leaves  
leaves lighter, broader 2-toothed, peduncle  
long slender flowers braced, squalling  
S. *paniculatus* *Wallich* *Reichb. f.* 1840. Lip purple spotted  
sepals ovate apiculate, petals upper curved  
with a longitudinal septum, side lobes  
semi-ovate imbricate auricled at the isthmus  
and base, middle sessile triangular, Burma

S. *chrysomelas*, Reichb. f. in Gard. Chron. Leaves broad  
bracts unequal 2-toothed, female simple.



19 MONDAY [231-134]

bracts triangular and shorter than the  
pedicelled ovules, yellowish, dist. of sepals slightly blackish purple  
lobes 3 by triangular with an ascending  
an imbricate base of sepals along the posterior  
base of upper lobes, the anterior +  
the column bicarinate, column slender, base  
pubescent. Sepals 5, 3-4 mm. of lip;  
S. racemosa (saccolob. racemosa)  
S. c. pallidus, which has a totally different  
column with a slender style and a  
lip.

S. macrorhiza Reiche. f. inf. br. leaves short oblong  
with 2 triangular principal leaf veins  
elongate leafy main fls. bracts most minute  
pedicelled rays cylindrical, apices equal,  
sepals 5, petals oblong, straight ribbed on  
back, lip 3-4 mm, side lobes subquadrate  
an angle, lobes towards middle  
triangular, concave, column short with style  
depressed process on each side next to  
the elongate depressed linear triangular  
strobilum.

20 TUESDAY [232-133]

Black Game Shooting begins.

S. amabilis Reiche. f. inf. br. leaves 5-6 in long  
lanceolate obtuse, panicle 1-3 in elongate  
blackish distant erect rays racemose, bracts  
most minute, flowers all yellowish  
apices purple, sepals oblong acute dorsal  
arched filaments, petals ligulate lip 3-4 mm.  
side lobes show clear oblong line, dilate  
triangular horizontal, apices cylindrical  
semicurved fringed septate dorsal  
cellus forked strap of pollinia oblong.  
leaves more compressed and  
pollinia blue on a forked strap  
strap - (this is the same as the one  
S. ferida, with even more remarkable  
pollinia of the strap of stigmatic pollinia  
which resemble that of S. racemosa, see S. racemosa 10. 11)

S. Gleisostoma. f. inf. br. leaves  
differs from S. racemosa only in the shape of  
the strap, a faint saccolobium in  
having a dorsal process of callus within  
the apices beneath the column. S. racemosa (from)  
probably 15 or 20. Under S. racemosa I have  
given no reason for not bringing this  
under the; which may add that it has



were brought under saccolabium the result  
would be **AUGUST, 1918.** 8th Month.

21 WEDNESDAY [233-132]

There are no characters of habit or habit  
whereby the three can be distinguished, &  
the stichoid are v. minute and often obscure  
in *Chlorostoma* & sometimes the dorsal  
appendage within the apex is either a 2-lobed  
club or thin scale, suggesting the propriety  
of rearranging the species of both genera  
of this character, but it is one so difficult  
of accurate observation in dried specimens  
that I hesitate to adopt it.

\* Stem more or less elongate. Peduncle stout,  
usually longer than the leaves. Branches  
erect; flowers in short spikes or racemes  
terminating the branches (as in *Chlorostoma*).

*C. latifolium* in Bot. Reg. 1841. *C. procum.* Kunt.  
1850

*C. andamanicum*. Hook. f. Bot. Beechey 4-6. ly  $\frac{1}{2}$ - $\frac{3}{4}$  in. bracte,  
peduncle equaling or exceeding leaves,  
side lobes of lip short truncate, midlobe  
v. short reniform, apex cylindric.  
South Andaman Island. *Chlorostoma*  
Stem as thick as a goose-quill. Leaves  
very coriaceous, rounded obtuse,  
unequally 2-lobed. Peduncle stout  
slightly attenuated at base & flange as in  
*C. latifolium*. Flowers of pale greenish-yellow  
with a yellow band within the margin,  
lip yellow, apex spotted with red, dorsal  
callus reticulate; column v. short, rotellum  
large, prominent; anther ovate, acuminate  
strap of globose; pollinia slender, plan  
median. Dried. Closely allied to *latifolium*  
but much more slender, leaves smaller &  
narrower & apex cylindric.

3. *C. longifolium* f. sp. orchid 227. leaves 6-7  
linear, ly  $\frac{1}{3}$ - $\frac{3}{4}$  in. anther only bracte. peduncle stout  
shorter or about equaling the leaves, side  
lobes of lip short truncate, midlobe v. short  
ovate papillose, apex acute. *C. galeatum*  
gynodio. *Saccolabium galeatum* f. n. 55.  
var. *galeatum* in Central Park. *Madagascar* etc.  
Stem as thick as a goose-quill. Leaves  
coriaceous, obtuse, frequently 2-lobed.  
Peduncle with anther bracte, short  
erect; flowers of pale yellow spotted red  
apex small callus. *Chlorostoma* *galeatum*  
dorsal scale truncate; column short, rotellum short



31 Days.

AUGUST, 1918.

AUG. 21 to 25.

antle small, step of globose pollinia linear, <sup>102</sup>  
flam small. Capsule 15 in narrow clavate.  
Petals (for plant III 500 erroneously miles  
thence Saccobolus lineolatus S. ochraceus  
with luidley C. maculosum.

23 FRIDAY [235-130]

4. *Grassophila* Lindl. Pet. 2.5, fruit 1.11 12 7.99, leaves 8-10  
in obtuse keeled, panicle long stout  
branched, spikes recurved, lip with a  
suberose ridge at the margin of cylindrical  
side lobes, middle lobe broadly ovate,  
lateral angles acute, recurved.  
Stem (Don. Virens). Stem 2-3 ft  
in the fruit. Leaves recurved v. thick,  
channeled, about 6-8 in. long, equalled, glaucous;  
flowers 1-2 in. diam., sepals oblong, obtuse,  
petals green + spotted, lip rose-colored, not  
at all closed by thickened ridge, disk of  
anther thickened; dorsal callus compressed  
downward; column 1/2 in. short; anther acuminate  
pollinia 4, subglobose, strap linear, slender  
small.

\* \* Stem stout. Panicle slender; flowers scattered  
on the slender branches of the panicle.

5. *C. longifolia* (L.) Steud. Leaves linear  
ramosum. obliq. 2-3 in. d. panicle branched  
sepals obovate, apically the corolla  
apex, side lobes of lip v. small, middle lobe  
triangular, ovate, obtuse, disk at base  
+ short spur with pubescens. Saccobolus  
ramosum. <sup>24 SATURDAY [236-129]</sup>  
<sup>St. Bartholomew Massacre 1572.</sup>  
<sup>S.R. 4-59; S.S. 7-4.</sup> gen sap orchid.

8. *pleurosum* Lindl. Jon. Lin Soc. 11.36.  
Acroclades pleurosum, Lindl. in Vall. Cat.  
Aerides ramosum Wall. End. 33.

*Epiphanis* Burckh. in Los valleys 80 ft  
Buenos Aires. The Andes, Mollat Blue.  
Guernsey on the Eltran River, white, Anouhuin,  
Panish. Stem 1-3 in. Leaves 3-5 by 1/2-3/4 in.  
Panicle erect, bracts minute, flowers 6 in diam  
lily or yellowish flushed or faintly blotched  
with red, or dull red with green margins;  
sepals + petals obovate, petals 3-nerved;  
lip white, flushed with pink or banded  
with yellow. Dorsal scale in app. erect 2 ft  
pubescent column 1/2 in. short bract anther  
short v. broad pollinia (4-5 very small Pale)  
strap dilated upward to suddenly contracted at  
the tip. Capsule 4 in, fusiform. Wallich's  
specimens from Bogota have 3 narrow leaves.

\* \* \* Stem usually 2-3 ft, Panicle slender  
on stout v. branched, usually shorter  
than the leaves.

25 Sunday [237-128]  
13th Nov Trinib.

*C. apicatum* Lindl. in Bot. Beech. 1847, vol 7. 32, leaves 4-8  
by 1/2-2 in spikes stout, simple dense fld  
bract ovate subulate, deflexed, side lobes  
of lip broad rounded, middle small ovate







31 Days.

AUGUST, 1918.

AUG. 26 to 29.

28 WEDNESDAY [240-125]  
(Last Quarter 7.27 p.m.)

8. C. Hook 1. stem slender, leaves bipinnate, 6 by 2-3 in. subacute, petiole v. short 1-2 fls. side lobes of lip small subfalcate, corolla lobes large white, base apical. all, narrow obtuse, several. Saccobolus bipinnatus. Br. St. Hill.
9. C. Hook 1. stem elongate, leaves lanceolate acute fleshy, petiole short sessile, sepals 2, thick, bracts short, flowers 2, diam. repals + petals subimbricate, ovate-oblong obtuse, orange yellow with 2 purple bands, lip pale yellow, side lobes falcate acute, middle short hastate with a membranous 2 angled tip, thickened, apex a short 24 tip, slender. Sikkim Himalaya. (Det. in Herb. Calcutta.) alt 5000 ft. fl. white. Anson. (Herb. 2. Comp.)
- Stems: tufted 8-12 in, as thick as a goose pen. internodes 2-3 in. tergilose. Leaves erect-petiole sessile, 3 in diam; flat, hard tip mucronate. Spikes 1-2 in. basal sheaths short, anthers, bracts brown, overgrowth green stripes with dull purple; sec of lip shining, thickened dist. extending beyond bract the thick callus at base of column thus closing the orifice of the sac; column short, stout, pollinia subglobose, strap compressed, gland large, 2 partite. Capsule 1-1 1/2 in fusiform, terete, fleshy, striate.



30 Days—Oct. 2.

60 Days—Nov. 1.

90 Days—Nov. 30

AUG.—SEPT., 1918.

8th & 9th Months.

xxx Stem v short. Leaves subcordate, peduncle  
raceme on apical much shorter than leaves.

30 FRIDAY [242-123]

10. C. Right. 1 in. 1872. 2 74.  
undulatum

11. C. Root of  
- fern

12. C. Right in the thick leaves - 1-1 1/2 in.  
Wendlandorum. Raceme simple or branched  
many fls, sepals obovate-oblong, petals  
narrower side lobes of lip oblong rounded  
midlobe small. Ovaries fleshy, spur  
short inflated. C. Callosum. Root of in  
Boupland (not of Stone) Pomatocarpa  
spicata, Ruhl. Herault  
Pachas. Zeyher. Zeyherum. Arab. Andaman  
Islands. Oculum. Stem 1 1/2 in. v. stout,  
roots fascicled. Leaves coriaceous, 2-lobed  
nervules, midrib beneath slender. Raceme  
paniculate 4-6 in. brs to obscure flowers to in  
bract yellow papillous. Sepal v. short  
broad truncate dorsal scale semi-circular  
erect; column slender rostellum beaked;  
anther long strap of glabrous pollinia  
linear gland small. Ovary 1 in. C. Pachas  
1 in. linear-oblong. A much larger plant  
than C. undulatum, named after  
2. Wendlandus Herrehausen. 1872. 2 74.

SATURDAY [243-122]  
S.R. 1, S.S. 1.49.

13. C. Right. 1 in. 1872. 2 74. Leaves coriaceous  
quantity of both ends. Raceme simple or branched  
many fls, sepals spatulate-obovate, side  
lobes of lip truncate oblong angled mid-  
lobe subcircular ovate apex short inflated.  
Andam. Mann. Litchim. (see Litchim. Clark  
Delb. seen 1 spec. here. It is as small  
as C. undulatum, from which it differs  
in the much longer stouter peduncle &  
raceme, & v. smaller flowers about 10 in  
diam (pale golden yellow flushed with red  
at base of petals, according to Litchim  
during the time of spec. erect. 2 spec;  
column v. short. anther short, obtuse pollinia  
subglobose strap dilated upwards, rather  
long, gland small.

Sunday [244-121]  
14th after Trinity.

14. C. Right in Bot. Dec. 1884. Leaves 8-10 by 1 in  
decipiens, which purple beneath, peduncle



2 MONDAY [245-120]

Partridge shooting begins.

or branched, spike many-fl. sepals + petals  
 long at the apex short gibbous C. maculosa  
 A draining the plant from the Peruvian  
 Idenberium represents the stem 1 1/2 in long  
 the leaves 5-6 in. - in top to base, irregularly  
 obtuse 2-lobed, sheath 2 in long, suberect  
 apex speckled purple. Flowering peduncle short  
 apex black purple with dense fl. spike 2 in length  
 1/2 in in diam. bracts minute, pubescent;  
 flowers 4-6 in diam. yellowish, more or less  
 suffused with red. Sepals 2 in long  
 high oblong. Drimen Wright suspects the  
 Swaiterian to be kindly decipiens.

15. C. Hook. f. leaves 3-4 in 1/2-1 in. acutely 2 fid  
 bicuspidatum Ra. Day fl. and oblate then leaves  
 sepals orbicular to obovate-obtuse, petals  
 ob - obovate wide lobes of lip phi  
 truncate, middle lobe v. stout ovate acute  
 recurved, spur cylindrical longer than the  
 sepals obtuse  
 Sikkim Himalaya, near Darjeeling, Andam  
 in West about 1000 ft. Chasie Hills, alt. 2000 ft  
 Anam. Renasserin Parish.

3 TUESDAY [246-119]

stem v. short. Leaves fl. or arrowed  
 towards base lobes v. acute, often ungued  
 the longer 3 in. Peduncle with 5-6 fl. simple  
 or branched racemes 2-5 in. bracts small,  
 ovate; flowers 1/2-3/4 in diam. spreading  
 or reflexed; sepals + petals yellowish green  
 with a medium stripe; lip white, speckled  
 or flushed rose a spur longer than sepals,  
 mouth infundibular with a thickened ridge  
 dorsal callus 2-lobed. Lumen short,  
 rostellum long decurved; anther bearded,  
 strap of globose pollinia dilated upwards  
 tip rounded protuberant beyond pollinia,  
 man in red + band or minute.

Species unknown to me.

C. discolor, Hindl. in Bot. 845. Leaves oblong  
 channelled oblique truncate, peduncle  
 long slender dull purple bran  
 the extremity, sepals orb - ovate  
 5-nerved, petals elliptic, both dull  
 yellowish with a yellow tinge, lip 3 fid  
 side lobes pubescent with a conical caruncle  
 in the inner faces within, dorsal tooth



SEPTEMBER, 1918.

9th Month.

undivided, beaked spur longer than  
sepals India (Bot. Lodge) In Ludlow paganus to  
is 3 1/2 by 4 WEDNESDAY [247—118] in its slender  
pedicel has some small ovate  
thefts, a small broad, membranous  
fl. buds 'above' to in diam, membranous  
spur cylindric, longer than the  
sepals walls thin, side lobes of lip thin  
sub-ovate, middle v. short continuous  
with side lobes, narrowed, ovate acute,  
concave, thin, without calli; callus  
below. Lvs 2-lobed puberulous; pollinia  
each didymous, strap clavate with  
curved margins, gland v. small.

G. bractium

Right lobes of bract. Stem short, leaves  
curved, bract lobes oblique, tip acute.  
Stem short, flowers small, buds small  
triangular, tip acute, sepals of buds acute  
obtusely pointed. Each lobe of lip  
retuse at tip. Middle lobe of each  
interlobular space. Pollinia small  
each with longest apophysis. Middle  
lobes ovate, bilobed, acute, narrow.

E. chiochou

Stem short, leaves small, bracts  
obovate, tip acute. Flowers small, buds  
triangular, tip acute, sepals of buds acute  
obtusely pointed. Each lobe of lip  
retuse at tip. Middle lobe of each  
interlobular space. Pollinia small  
each with longest apophysis. Middle  
lobes ovate, bilobed, acute, narrow.

5 THURSDAY [248—117]  
New Moon, 10.44 a.m.

67. Ornithochilus. wall.

Epiphyte. Stem v. short, pseudobulb 0.  
Leaves few, broad, flat. Scapes lateral,  
slender; flowers small, recent root produced.  
Sepals spreading, unequal, lateral oblique  
obovate. Petals linear. Lips much larger than  
the sepals, divided into lobes subquadrate,  
middle lobe lobulate & pubescent, velvety flap over mouth of the short narrow  
spur, which is distant from base. Column short,  
long 0, rostellum filiculate; anther long 2-celled



6 • FRIDAY [249—116]

68 *Dacnophyllum*, *albidum*

7 SATURDAY [250-115]

*Jewish Year 5670 begins. S.R. 5.22, S.S. 6.34*

. 9.  
Alwisii

8 Sunday [251-114]

15th after Trinity.



30 Days—Oct. 12.

60 Days—Nov. 11.

90 Days—Dec. 11.

SEPTEMBER, 1918.

9th Month.

9 MONDAY [252-113]

3. 3. *Scaphium*, spike sessile many fld, appearing  
 serrulate from the upper & regularity of  
 very minute sub-distichous bracts, which  
 are on each side of the coriaceous, side  
 of the rounded, bilobed leaf, but that  
 appear as a single line. *Scaphium*, *Scaphium*  
 fls. intense, *Scaphium* 1/2-1 in; bracts  
 coriaceous, *Scaphium* 1/2-1 in; bracts  
 reddish yellow, *Scaphium* 1/2-1 in; bracts  
 narrower, *Scaphium* 1/2-1 in; bracts  
 side lobes of lip narrower, *Scaphium* 1/2-1 in; bracts  
 papillose. *Scaphium* 1/2-1 in; bracts.

69. *Microsaccus*, *Microsaccus*

Small densely tufted epiphyte; stems densely  
 leafy. *Leaves* distichous, narrow or scalpelliform  
*flowers* minute, subsessile or v. short  
*sepals* & *petals* sub-equal, wide  
*receptacle* small, adnate to the base  
 of the corolla. *Corolla* broadly saccate; side  
 lobes small or v. middle  
 lobes v. show, truncate; anthers subentire  
 filaments 4 distinct, ellipsoid or globose,  
 sessile on the slender straps, gland small  
 or medium sized. *Capsule* small, species  
 3 or 4 on a day. 10 TUESDAY [253-112]

1. M.  
*Scaphium*

367; leaves equitant scalpelliform  
 flowers subsessile. *Scaphium* 1/2-1 in; bracts  
*Scaphium* Griffithii, Par + Reiche in *Travels* for  
*Scaphium*; as *Scaphium* Griffithii (H. B. K.)  
*Scaphium*, *Scaphium* - *Scaphium* 1/2-1 in; bracts  
 stems 2-4 in, curved 1/2 in diam across leaves,  
 leaves broadly ovate, obtuse, somewhat  
 recurved, wrinkled when dry. *Scaphium* 1/2-1 in;  
 diam, almost concealed by leaves, cellular,  
 white; bracts scarious, sheathing; sepals  
 lanceolate; petals rather narrower; lip obtuse  
 3 lobed. *Capsule* 1/4 in. sessile, ellipsoid -  
 description. *Scaphium* 1/2-1 in; bracts  
 in *Scaphium* 1/2-1 in. I have seen no authentic *Scaphium*  
 specimens, but the Indian plant agrees well  
 with Blume's description.

2. M.  
*Virens*

*Scaphium* 1/2-1 in; bracts  
 flowers in v. short racemes. *Scaphium* 1/2-1 in;  
 Blume Bijdr. 381. *Scaphium* 1/2-1 in; bracts  
 stems 4-8 in, v. stout, strongly incurved. Leaves  
 1-1 1/2 by 1/4 in, v. thick & fleshy, subacute. Racemes  
 much shorter than leaves, 3-6 fld, bracts  
 distichous, ovate, acute, v. coriaceous & persistent  
 fls. coriaceous, about 1/4 in diam; sepals lanceolate, small  
 petals short narrower, lip orbicular, apiculate, thick



Epiphyte; stems short leafy, pseudobulbs 0. Leaves linear, narrow, fleshy, alternate or complanate. Racemes long subsingular, racemes. Sepals linear, sub-2-l or 3-l or 4-l lobed. Petals 2-l or 3-l. Lip 2-l or 3-l. 2-4-angled, disk yellow. Petals 2-l or 3-l, truncate, with 2-3 species 2-3 Indian.

Kind in Bot. Ref. inde T. 1522. Leaves 4-6 in diam. panicle long peduncled branches, height T. 1680 & 1681. *Symbidium alofolium*, Barb. *Silphium* and *Dracopis* right. *the Central Province*. Stem 2-6 in; leaves linear, broad, 4-1/3 in broad, mostly obtuse. 2-angled, recurved. Panicle with peduncled 5-8 in; flowers 1/4 in diam, densely crowded towards the ends of the branches; bracts minute, acute. sepals & petals deep pink or brownish tinged with pink; lip 1-lb, longer than the petals, entire, pinkish like or crimson spur much shorter than the blade of the lip. Column, incurved, obtuse; column stout, anthers incurved, *Stellium* narrow, anther truncate, cells basal, strap of pollinifer narrowed from the broad base upwards. Capsule 1/2 in. clavate.

2. *congestum* Wright. D. T. 1682. leaves 2-3 in broad, spike v. stout, short peduncled single or shortly branched at base. *Dracopis* in the *Dynamellay Hills* Wright. Stem v. short. Leaves 2-3 in broad, deeply 2-lobed, lobes obtuse. *Stem* v. short. Peduncle with dense-fl. spike 4-6 in radius v. stout; bracts minute, acute; fls. about 1/3 in diam; column, lip, spur, column, anther much like *Dr. recurvum*.

70/2 *myrtacidium*, Kindl.

Epiphyte; pseudobulbs 0. leaves few, distichous, linear, coriaceous. Flowers in axillary racemes, small. Sepals & petals subequal, free, spreading. Lips adnate to the base of the column, 3 lobed, spurred. Column v. short, 1/2 in; anther 1/2 in; attached to the top of the column; pollinifer 2, lobed, attached by separate straps to the gland. Species about 20, tropical Africa & one *Griseb.*







*Pseudobulb*  $\frac{3}{4}$  -  $1\frac{1}{4}$  in. ... *Leaves* ...  
... *sepal* ...  
... *lip* ...  
... *capitate* ...  
... *difficult* ...  
... *being* ...  
... *valvosa* ...

2. *indica*

... *lip* oblong ...  
... *contraction* ...  
... *difficult* ...  
... *than* ...  
... *more* ...  
... *branches* ...  
... *is* ...  
... *lost* ...  
... *probably* ...  
... *drawing* ...  
... *quite* ...  
... *which* ...  
16th. 12th 17 TUESDAY [260-105]

3. A. *Ridleyi*

... *lip* with small oblong obtuse ...  
... *large* ...  
... *oblong* ...  
... *Singapore* ...  
... *Ridley* ...  
... *leaves* ...  
... *olive* ...  
... *raceme* ...  
... *spotted* ...  
... *lip* white ...

72. *Pseudochilus* Blume.  
... *stems* ...  
... *distichous* ...  
... *terminal* ...  
... *flowers* ...  
... *bracts* ...  
... *with* ...  
... *as* ...  
... *mentum* ...  
... *lip* ...  
... *erect* ...  
... *column* ...  
... *lipid* ...  
... *each* ...  
... *stipe* ...  
... *small* ...  
... *species* ...



113 BILLS DUE WITH GRACE.  
30 Days—Oct. 21.  
60 Days—Nov. 20.  
90 Days—Dec. 20.

SEPTEMBER, 1918.

9th Month.

18 WEDNESDAY [261-104]

Ember Day.

\*

1 P.  
Cultratus

Leaves opposite, petioles long, not  
articulate, with the plant growing erect  
or inclined or decurved. Leaves  
kind in 15. Leaves ensiform  
replicate, base of lip essentially oblong  
concave 5-nerved, 1-2 in. long.  
Tropical Himalaya; Nepal, Sikkim,  
Sikkim, J. O. H. Assam, M. S. B. Chom  
Clarke. Dinasserim; The Attham River, Parish  
then 3-7 in. with leaves  $\frac{1}{3}$ - $\frac{2}{3}$  in broad,  
leaves  $\frac{1}{3}$ - $\frac{2}{3}$  in, many nerved. Peduncle  
short, decurved; bracts ovate-lanceolate  
flowers 1-2 in long, dorsal sepal broad  
5-nerved, lateral subacute; petals broadly  
obovate, acute, 3-nerved, meeting at the  
base of lip broad. Labellum  $\frac{1}{4}$  in. The  
lip resembles that of an appendicula;  
I doubt its being articulate & mobile.

19 THURSDAY [262-103]

2 P.  
falcatus

Kind. for sp. D. C. H. 234. Leaves ensiform  
obtusely, lip narrowly closed oblanceolate  
5-nerved, base with a short notched appendage  
Thwaites. B. M. 234. B. M.  
Beylon; Central Province alt. 3-6000 ft.  
Common. Habit of P. Cultratus, but stem  
longer; 6-12 in. Rachis with an  
involucrate top, round which the capillary  
tails of the pollinia are curved, gland  
minute. D. var. angustata. Th. (P. P. 3889)  
The leaves are so closely appressed to one  
another, that not even the points are free  
the breadth of the stem across the leaves  
is only  $\frac{1}{3}$  in.

3 P.  
malabaricus

Wight. Bot. K. 1748. fig 2; leaves obtuse, spike  
many-fl. much longer than leaves,  
mentum 1.5 in. lip linear-lanceolate  
obtusely contracted in the middle. W. P. Am. 1893  
Malabar, Gordon; Wynad jungle, Pres.  
Draven, Johnson. Stem 1-1.5 in  
 $\frac{1}{2}$  in across the leaves. Leaves  $\frac{1}{2}$  in straight.  
Spike 1-1.5 in inclined or horizontal few-fl.  
bracts broadly ovate; flowers white tipped with pink



114

光緒

↑ ↑

6. 6.

83 51.59







25 WEDNESDAY [268—97]

\* Lip adnate to the sides of the  
↑ limb 2 lip with a large callus  
R. Lindl. in Hook. & Rev. Jour. VII (1855) 35;  
1-1 1/2 ly. in. obtuse 2-toothed  
Chiefly terminal v. short, mentum  
rounded, lip ovate-oblong  
ridge of column produced into lacinia  
as the rostellum. A. red-phyll.  
Each v. in 64. Bot. Hunt. 45. A. red-phyll.  
Each. Tecom. Welp. Singapore  
Ridley, Distrib. China, Borneo?  
Stem 10-24 in, simple. Leaves often apiculate  
the obtuse, apiculate teeth. R.  
terminal, rarely lateral or bifid -  
6-8 fls. pedicels short, glabrous, flowers  
short to medium, lobes obtuse,  
obovate, notched, 3-nerved; lip exserted  
at base, the middle lobe  
with a small, notched, lobule beyond  
the middle, the lobes  
oblong, entire; anthers long, straight  
or 2-lobed. 1 lobe to 1 in long, straight  
elliptical. Lindl. in describing the Chinese  
plant asserted it to be the same as  
d. well. Cas. 2002, which consists of 2  
v. distinct Borneo plants a ~~small~~ <sup>small</sup> ~~one~~ <sup>one</sup>  
(N. disparium Lindl.) is an appendical  
in fruit only, very like the Chinese plant



SEPTEMBER, 1918.

9th & 10th Months.

27 FRIDAY [270—95]  
(Last Quarter, 4.39 a.m.)

TH GRACE.  
30.  
29.  
28.

SEPTEMBER, 1918.

9th & 10th Months.

27 FRIDAY [270-95]  
(Last Quarter, 4.39 a.m.)

Blume. Bijdr. 303: leaves  $\frac{1}{2}$  -  $\frac{1}{2}$  in. bl.  
 though 2-rid, blenthes 2-cuspidate flowers  
 in terminal bracteate heads, lvs 5-  
 short white with a large transverse broad  
 appendage. Rhiz. 8-10. D. 1.

*A. stipulata* Griff. *notul.* iii 358.

1. *guffik*. *Parich*: *Perang*, *Welke* etc.  
 2. *Scort*. *Distrik* *Java*, *Boneo*.

Stem 6-18 in. simple, long, close together  
coriaceous, base truncate, tips not contractile  
leaves of flowers sessile; bracts lanceolate  
scarious, obtuse, many-nerved; flowers  
1/8 in long, erect cream color. mouth sacculate  
petals linear, obtuse, claw of lvs as long  
as the foot of column and as long as  
throughout its length; limb broadly ovate  
narrower than the appendage, which has  
diverge lobes and is tubercled in the same  
column with short truncate wings. The leaves  
are often curiously pitted.

3. A. suff. in Calc. foun. and. Hb. IV. 378. T. 19;  
 Lewisii, leaves 1-3 by  $\frac{1}{2}$ - $\frac{2}{3}$  in linear. or obl. lanc. 2 dentat.  
 racemes v. short leaf-opposed, many and globose,  
 lip ovate many-nerfed, base calceolar.  
 A. cyathifera, Leichb. f. ms. Metacilium cyathiferum  
 Vandellii vaginatum. Will. ms.

*Persea* *maritima* (Roxb. Dist. 1616) Curtis, Perak  
 scortechin, 29 Sunday [272-93] Singapore, Wellich  
 18th after Trinity.  
 Stem 6-18 in. S. Michael & All Angels. Michaelmas Day. unbranched, flattened  
 1/3 in broad. Racemes distant and numerous  
 sheaths 1 in long. Racemes apical & terminal, 1-1 1/2  
 in, many fld; bracts small, ovate-lanceolate, reflex  
 flowers about 1/4 in long, yell-green; sepals acute;  
 petals elliptic, 1-nerved; claw of lvs adnate, 1/4 long



30 MONDAY [273—92]

- B2-39161



30 Days—Nov. 4.  
60 Days—Dec. 4.  
90 Days—Jan. 3.

OCTOBER, 1918.

10th Month.

2 WEDNESDAY [275-90]

Stem 6-8 in, simple, compressed. Leaves  
rather close-set, membranous, base  $\frac{1}{2}$   
plexicaul. Racemes 2-5 in suberect.  
bracts obl. lanceolate, membranous, base  
5-nerved. fls. 8 in long; sepals greenish  
tip purple; petals elliptic, obtuse, 3-nerved  
lip, cordate, yellow + purple, column  
marked, anther short. Capsule  $\frac{1}{2}$  in slender

7. A. Reich. sp. seen. St. 2-4; leaves  $\frac{3}{4}$  in  
lanceolate obtuse, 3-nerved, base  
apiculate, raceme elongate terminal  
bracts large many fld, mentum  
obovate-lanceolate 5-nerved  
base narrow, cal. color.  
Perah. Kortechin - Bistiv. Phillipine Isl.  
Stem 12-18 in, simple, compressed. Leaves  
rather close-set, membranous, base  $\frac{1}{2}$   
plexicaul. Racemes 2-5 in suberect.  
bracts obl. lanceolate, membranous, base  
5-nerved. fls. 8 in long; sepals greenish  
tip purple; petals elliptic, obtuse, 3-nerved  
lip, cordate, yellow + purple, column  
marked, anther short. Capsule  $\frac{1}{2}$  in slender

THURSDAY [276-89]  
Charles Lettis's Diaries for 1919 published.

8. A. Hook. f. Sc. Plant. Ind. tall, leaves 3-4 by  $\frac{2}{3}$ - $\frac{3}{4}$  in  
lanceolate obtuse 3-nerved, racemes elongate  
simple or branched stout, many + densely fld.  
mentum - cylindric, lip obovate - obt. 3 lobed  
side lobes small, 1-lobed, middle lobe broadly  
ovate acute, base notched, cal. color.  
Perah; on Humong Batu Pateh, alt. 3-4000 ft  
on rocks Philip collect. Stem 12-24 in  
stout, terete. Leaves rather thin, base  
semis-amplexicaul; sheaths  $\frac{1}{2}$  in. racemes  
3-6 in, terminal + leaf-opposed, sessile or  
peduncled, erect; rachis stout; bracts  $\frac{1}{2}$  in  
obl. obt, coriaceous, recurved, strongly nerved,  
flowers  $\frac{1}{6}$  in long, light yellow with red center  
lateral sepals recurved, acute. petals  
obl. obt, 13 nerved; column marked; anther  
as long as long; capsule  $\frac{1}{2}$  in in 1 uniform  
strong-ribbed, clavate-colored, a little  
A. cristata (Blume) J. J. Sm. has the limb  
lip in not rounded, emarginate + crested  
the little ribble.

9. A. Hook. f. Sc. Plant. Ind. tall, leaves 2-3 by  $\frac{1}{6}$ - $\frac{1}{2}$  in  
linear-lanceolate tip dilated apiculate  
racemes terminal many + densely fld. bracts  
spreading + incurved, mentum



4 FRIDAY [277—88]

Stems 6-16 in; rather slender or stout,  
unbranched. Leaves alternate, linear-lanceolate,  
as base, tip: minutely 2-lobed or rounded.  
Petioles 1-2 in, simple or branched, often  
sheathed, flexuous; bracts 12-15 in. deflexed  
then recurved, coriaceous, entire or 5-  
ribbed; fls. 4-10 in long; lateral sepal, broad,  
obtus; nerve slender; petals linear or  
obovate-obl., nerve 1; tip coriaceous; the  
marked; rostellum short, triangular.  
The ovate, acuminate. Capsule 3 in  
long. The Perak specimen is more  
slender than the Bending, the ovary  
is longer more cylindrical, the petals  
narrower & recurved. The specimen is  
compared with *A. grandifolia*, Legume  
& *Bignonia* Monticola.

A perfect human species.

10. *U. Hori. f. de Heller. riga*; leaves  $\frac{1}{2}$  in. long  
*echinocaps. rev. oblique - fl. coriaceous*  
 thickened upper back reflexed, apices  
 subterminal. bracts orbicular  
 connate, capsule ellipsoid, valves dorsally  
 flattened, with 1 bristle.

5 SATURDAY [278—87]

*Dividend due. New Moon 3-5 a.m.  
S.R. 6.7, S.S. 5.30.*

S.R. 6.7, S.S. 5.30.

Perak; lower camp in fuming Batu Putih, 3007  
 stem 4-6 in, slender but rigid; internode  
 6 in. Leaves semi-amplexicaul, pale,  
 opaque, rather waxy, tips rounded,  
 obcordate, 2 1/2 in, with incumbent teeth;  
 upper base usually reflexed, like an ear.  
 Capsule 1/4 in long. Trifid. A v. remarkable  
 species. A. longifolia Blume. Bijdr. 304  
 Ceylon, Ambagala, ~~dist.~~ rare, Thwaites.  
 of the plant this doubtfully referred by  
 Thwaites to the javan. A. longifolia, this  
 author decides longifolia "stems simple  
 compressed, leaves linear-lanceolate  
 retuse, flowers densely capitate" Thwaites  
 adds: leaves 3-5 by 2 in, retuse mucronate  
 Can the Ceylon plant be an ~~stems~~ styl  
 Thwaites? A. dens. Thwaites. Bot. 359.  
 Ceratostylis Thes, R. 1. see v. v. p. 825. A. sp.  
 Gill. Bot. 359 Sunday [279-861]  
 of from off-shoots ~~ciner~~ (is really in Herb  
 Ke. Jan. VI 36 ~~shades~~) the an appendicula  
 74 Thelasis Blume.  
 Epiphytes, with either small 1-2-leaved  
 pseudobulbs, or with short compressed stems  
 clothed with equidistant long sheaths.

Будова [279-86]

rich after Trinit

Handwritten signature: *Handwritten signature*

262

...

100

748

17

with each

27

7. 11. 1918

1

23rd July

1



30 Days—Nov. 9.

60 Days—Dec. 9.

90 Days—Jan. 8.

OCTOBER, 1918.

10th Month.

7 MONDAY [280-85]

Mohammedan Year 1337 begins.

oblong or linear-oblong, flat, or horizontal  
 a jointed scape from the  
 base of the pseudobulb, or lateral on the stem  
 with 1-3 small, narrow, linear, or minute apiculate  
 cells. Lateral corolla-sealed or winged. Petals narrow  
 membranous. Lip sessile, or the base of column  
 erect, ovate or oblong. Column v. short, several.  
 1000; rostellum terminal, large, erect;  
 anther elongate, dorsally, erect, from 2-4 cells  
 pollinia v. minute, globose, attached by  
 long threads to the tip of the rostellum  
 gland small. Capsule v. small, turpidly  
 ovoid. Species about 10 tropical Asiatic  
 I have seen none well distinguished as to  
 the character of lateral sepals in the same  
 as to their being winged or not; the sepals  
 are v. soft. Their exact structure not known  
 in specimens that have been dried &  
 again moistened.

leaf 1. Euthelasis. Pseudobulbs 1-2 leaved.

Lateral sepals distinctly strongly beaked or winged.

1. T. *pygmaea*. Lill. in Journ. Soc. III. 63; scape 1-2 in  
 longer than the solitary linear leaf, spike  
 short laxly flr'd, lip ovate, scale contracted  
 towards the tip. Prothosia *pygmaea* Griff.  
 in Calcutt. Journ. April (cult. in Herb. Bot. Calcutt.).  
 Griff. 8 TUESDAY [281-84] Jordan, Denasserin  
 in Anouman, v. arid. Pseudobulbs  $\frac{1}{2}$  -  $\frac{2}{3}$  in  
 diam. Scape v. slender, curved; spikes  $\frac{1}{4}$  -  $\frac{1}{2}$  in  
 long; bracts ovate, acuminate; flowers 10 in  
 long; dorsal sepal ovate; lanceolate with  
 lateral linear oblong; lip 3 nerved, with  
 rounded sides from the middle to the base,  
 rostellum 2 fid. The Anouman plant seems  
 the same as the Denasserin. This is in a  
 Pelouze state, Thwaites. with the petals &  
 lip smaller, ovate, lanceol, steeply nerved; ovary  
 with imperfect ovules.  
 Var. *multiflora*. Leaf large 3-4 in, scape  
 shorter 1-1.5 in, spike 1-2 in. Sikkim Himalaya  
 ser. 1000 ft. D. B. Thwaites.

2. T. *capitata*. Blume Bijdr. 386; scape 4-6 in stem longer  
 than the linear solitary leaf, spike cylindric  
 densely, rachis pitted, lip obl-ovate obtuse.  
 Cerat. Martechin. Cristul Sumatra, Java.  
 Pseudobulbs small, obl, or a st. creeping  
 rhizome. Leaf 3-4 in obtuse or subacute.  
 Spike v. bract v. close set, ovate acute  
 acuminate. Flowers 10 in long; dorsal sepal  
 ovate-lanceolate, lateral oblong concave thick  
 beaked or shortly winged; petals lanceolate,  
 acuminate; rostellum elongate, subulate, entire



differs from the Sumatran *capitata* in the  
 long spike, acuminate petal + entire  
 rostellum. *of 70-80* more resembles the  
 of *P. triptera* R. of Ananilla, which has  
 an ovate lip narrower to the apex.

9 WEDNESDAY [282-83]

3. T. Blue Orchid. Andip. Ind. 23. T. 7. f. 2.  
 elongata. Scape 4-6 in. longer or shorter than the solitary  
 linear leaf, spike cylindrical, dense fld, lip  
 ovate acute or acuminate. Singapore;  
 at Johore, etc. Pseudobulb v. various in form. Bract, spike  
 as in *T. capitata* from which it differs in  
 form of the lip. Blume's figure is a  
 v. bad one and does not show the strong keel  
 of the lateral sepals + angles of the ovary.  
 The species of this section are v. difficult of  
 determination in a dried state + possibly  
*capitata*, *elongata*, *triplex* + others are  
 all *formosa* ones.

\* \* Lateral sepals not strongly keeled or winged.

4. T. Hook. 9-30. Plant erect; scape 8 in. much  
 higher than the 2 opposite elliptic-lanceolate  
 acuminate leaves, spike v. long fld. lip  
 broadly elliptic obtuse. *Kharia* var. *lobb.*  
 Pseudobulb. 12-13 in diam. Bract 3 1/2 by 1 1/4 in  
 spreading, *10 THURSDAY [283-82]* contracted. Spike 2 in  
 bracts broadly ovate, obtuse; fls. 5 in long  
 sepals broad obtuse, petals 1 in long  
 1 nerved; lip obscurely 5 nerved, broader  
 in the middle; rostellum v. long, acuminate  
 entire.

5. T. Hook. 1. 30. Plant erect. Scape + spike rather  
*Khariana*. stout. Bracts ovate-lanceolate. Sepals  
 ovate-lanceolate, obtuse; petals lanceolate,  
 obtuse; lip 3-nerved, linear rather  
 much the base than tip. Rostellum large  
 acute. No like *T. pygmaea*, but a much  
 larger plant, without keel or wing on the  
 sepals.

6. T. Hook. 1. 30. Plant erect; scape stout with  
 longish leaves. The spike 6-9 in. almost equalling the whole  
 leaf, spike elongate lax-fld, lip elliptic  
 ovate acute. *Kharia* var. *g. T. H. + T. T.*

Differs from *T. Khariana* in being v. much  
 larger, & in the acute lip. Pseudobulb. 3 1/4-4 in  
 diam. depressed-globose. Bract sometimes  
 falcate, 2 3/4-1 1/4 in broad, fls. 6 in long.  
 Dec 11. Oxyanthera Brongn. (fem). Pseudobulb.  
 6; stem short, clothed with the  
 equitant sheaths of the linear leaves which  
 are jointed at the sheath. (Oxyanthera is a  
 very natural group.)



11 FRIDAY [284-81]

7. T. Hook f. Sc. Plant. red. Leaves 10-12 in tip  
relata. 1-1/4 in tip, scape equaling or  
exceeding the leaves, raceme long slender  
leafy. Pericarp, on decayed wood, fig. 1  
Rootstock as thick as the little finger. Leaves  
flat, narrow 2-2 1/2 by 1/2 in. compound  
pinnate. Scape v. slender, filiform;  
sheaths 3-4 1/2 in long, membranous,  
lanceolate; bracts ovate,  
spreading & reflexed; fls 4 in narrow,  
shortly pedicelled; sepals linear-lanceolate,  
1-nerved, venation distinct. Petals lanceolate  
acute. Lip erect, claw short, broad, limb  
subacute, margins revolute, base  
broadly 2-angled, angles revolute;  
rostellum 2-partite; germen  
pollinia 8, short, broad, cream  
T. carinata. Bl. (of which I have seen  
a few) leaves are v. much longer  
the scape v. slender, raceme longer, &  
bracts acuminate.

8. T. Hook f. Sc. Plant. red. Leaves 4-6 in tip  
decurrens. narrow, rounded, obtusely notched or  
subacute. Scape v. slender, raceme  
v. short: decurrent, bracts reflexed, lip  
deeper-shaped, for a concave curve base  
terete & fleshy beyond the middle with  
the curled margins inflexed & close to  
the median line.  
Singapore: at Kranji, Ridley. Penang, at  
Foot Hill, Anson. Leaves 1/3-2/3 in broad  
scape shorter than leaves, filiform, filiform  
sheaths 1-2 lanceolate, thick 1/2 in. pedicel  
1/6 in, longer than the fl. bracts; flowers  
1/8 in long, pale green colour. Sepals ovate  
lanceolate, acute, universally oblong, the  
petals 1-nerved. This much resembles the  
fig. 100 O. micrantha, B. & H., which is fig. 1  
as having a short broad ovate obtuse  
lip, narrowed into a broad shallow claw  
base concave. The leaves of some species  
are narrow at the tip, the leaves 2 rounded  
lobes.

12 SATURDAY [285-80]

Michaelmas Law sittings begin. S.R. 1919 S.S. 5.10.

13 Sunday [286-79]

20th after Trinity. First Quarter, 5.0 a.m.

T. carinata. Doubtful species.  
Reich. f. in Iran. Pl. Ind. v. x. 1917? of Blue Bird  
as the absence of flowers is in the  
what species this may be. It differs greatly  
the fig. of Blue T. carinata (for Java) it is a



31 Days.

OCTOBER, 1918.

OCT. 11 to 15.

124

14 MONDAY [287-78]

Michaelmas Fire Insurance ceases.

198, T. 37. 03

15 TUESDAY [288-77]

Interest payable on £4% War Loan 1929-1942.



125 BILLS DUE WITH GRACE.  
30 Days—Nov. 18.  
60 Days—Dec. 18.  
90 Days—Jan. 17.

OCTOBER, 1918.

10th Month.

Ph. Ceru-cervi

16 WEDNESDAY [289—76]

habitat

Flowering period.

Duration of flower. Each flower lasts about 10 days.

17 THURSDAY [290—75]



1. T. proliferans J.B. var.

Keels strongly webbed at apex and strongly free from mid-venter.

19 SATURDAY [292-73]

○ Full Moon, 9.35 p.m. S.R. 6.31, S.S. 4.59

2. *T. djampangense* J.L.S. Bull. Bur. Sur. Min. 2e sér. No. 14. (1912) 112

20 Sunday [293—72]

21st after Trinity.



OCTOBER, 1918.

10th Month.

3. T. Edkhuizem. J. L. w. p.

21 MONDAY [294—71]

22 TUESDAY [295—70]











31 Days.

OCTOBER, 1918.

OCT. 25 to 29.

28 MONDAY [301-64]  
SS. Simon & Jude.

|                                      |                |   |
|--------------------------------------|----------------|---|
| <i>T. tenerimum</i>                  | J. J. S.       |   |
| <i>T. proliferum</i>                 | J. J. S.       | Bull. Ind. Bot. Bot. Ser. V. No. 26                           |
| <i>T. djampangense</i>               | J. J. S.       | Bull. Do. Ser. II No. 9 (1913)                                |
| <i>T. Bakhuizenii</i>                | J. J. S.       | Do. Ser. XII No. 26   |
| <i>T. radiatum</i>                   | J. J. S.       | Do. Do.   |
| <i>T. biloculare</i>                 | J. J. S.       |   |
| <i>T. glandulosum</i>                | Bl.            | Bijdr (1825) 356  |
| <i>T. aurantiacum</i>                | J. J. S.       | Bull. Ind. Bot. Bot. Ser. XII No. 26                          |
| <i>T. rostellatum</i>                | J. J. S.       | Do. Do.   |
| <i>T. hirtum</i>                     | Bl.            | Bijdr (1825) 356.   |
| <i>T. filiforme</i>                  | J. J. S.       | Bull. Ind. Bot. Bot. Ser. V. No. 7.                           |
| <i>T. Hasseltii</i>                  | Bl.            | F. Xen. Arch. II. 48. t. 116, III.                            |
| <i>T. oblongum</i>                   | Bl.            | Bijdr 357 : Lindl Gen & Sp. Ind. 226. T Zollingeri Rehb F. B. |
| <i>T. C. biocellatum</i>             | J. J. S.       | 1877. 61 : Xen. Arch. 222. 7. 71, 7. 23.                      |
| <del><i>T. deuminalissimum</i></del> | <del>Bl.</del> | <del>...</del>  |
| <i>T. pantjarense</i>                | J. J. S.       | Bull. Ind. Bot. Bot. Ser. VII, IX. 58.                        |
| <i>T. calyptrochilus</i>             | J. J. S.       | Do. 59.   |

29 TUESDAY [302-63]







*All Saints.*

B4-34/68



4 MONDAY [308—57]

|                  |   |    |     |    |  |       |
|------------------|---|----|-----|----|--|-------|
| Initial          | Single seedlings growing. It reaches its greatest development when growing on fruit and other low vegetation. |    |     |    |  |       |
| Number of seed   | Three plants examined.  |    |     |    |  |       |
| Remarks, of seed | (many in fruit)   | 1  | 277 | 38 | (Groups of 5, 4 & 3 from successive flowers) | 13.75 |
|                  |   | 2  | 54  | 11 | (9 being from successive flowers)            | 18.50 |
|                  |   | 3. | 45  | 9  | (groups of 3 & 3 from successive flowers)    | 5.93  |
|                  |   |    | 376 | 58 |  | 15.18 |
| Remarks          | Two capsules opened and seed fertilized produced 16 young plants.   |    |     |    |  |       |

5 TUESDAY [309—56]

|                |  |   |                    |  |                  |  |       |       |
|----------------|--|---|--------------------|--|------------------|--|-------|-------|
| Initial        | Small tree near stream and in damp jungle at near Lamas. Growing with <i>Ascorhiza hirtellus</i> . |   |                    |  |                  |  |       |       |
| Number of seed | 5 plants examined  |   | Flowers            |  | Capsules         |  | %     | %     |
|                |  | 1 | <del>86</del> 86   |  | <del>14</del> 14 |  | 16.28 | 16.28 |
|                |  | 2 | <del>80</del> 80   |  | <del>14</del> 14 |  | 17.50 | 12.50 |
|                |  | 3 | <del>110</del> 110 |  | <del>28</del> 28 |  | 25.45 | 13.64 |
|                |  | 4 | <del>45</del> 45   |  | <del>5</del> 5   |  | 11.11 | 11.11 |
|                |  |   | <u>321</u> 321     |  | <u>61</u> 61     |  | 19.00 | 13.70 |
|                | This species was very common in the district.  | 5 | 79                 |  | 21               |  | 26.58 |       |
|                |  |   | <u>400</u>         |  | <u>82</u>        |  | Total | 20.50 |



6 WEDNESDAY [310—55]

1911

each having 2 tacks)

F. 24-15

4.5.10

59

63.63

55.00

12.5

50.00

† AETHIOPHYLLID B1

*S. myosurus*

Revised at

Flowering season

Frequency of acc.

7 THURSDAY [311-54]

7. Flowers prostrate along light orange to salmon color.  
Many plants on a fruit tree on a small rubber estate at Bekah, Johore.  
Sepals + petals yellowish. 5.5-7.5 cm long.  
Flowers 3-5 cm long, lanceolate.
8. Inflorescence clearly stalked, lax. Flowers pale green. Spikes with a gland.  
Inflorescence compact. Pedicels very short. Flowers + often the whole plant  
more or less strongly tinted orange to brown.
9. 4 plants examined with 11 flowers. Flowers with 10-15% by plants.  
Another plant with Raceme of flowers. Capsules
10. Lip short, strongly concave at 3/7 the base only, short 2701 concave inward with  
a 2-3 cm. 1.43, rounded 0.0, all purple. 1.0, base concave short. T. castellatum  
Lip inside a similar 1.40 with a very 1.0, 1.0, 0.65  
2 1.40 0.0  
3 1.14 0.0  
4 (large plants) 1.96 0.0  
1.77 1.30  
1.20 1.66  
1.73 1.37  
1.0 1.29  
11 10.10 6 .59
11. Inflorescence short with long, curved hairs. Capitulum very small.  
Inflorescence much compound, flowered with filiform stamens. Capitulum large T. filiforme
12. Lip with a short, curved, obtuse apex. Anthers yellowish with a purple head T. Hasseltii  
Lip not arched at the apex. Anthers purple or violet with whitish break
13. Flower yellow. Lip with short obtuse apex, a little like whole 11-15 cm.  
long. Column white. T. obliquum  
Flower yellowish white. Lip with long, somewhat club-shaped apex white  
with white spots in all 7.5 cm long. Column white + violet. T. bicoloratum







Half Quarter Day. Martinmas.  
D First Quarter, 4.46 p.m.







MICROTATORCHIS Schlechter

Small, 1.5 cm. long. 17 Sunday [321-44] Quercus puberula c. 1.1 cm long. Capsule  
25th after Trinity.  
pubescent obliquely oblong-oval, laterally compressed, curved on the back, unequally 4-toothed  
c. .45 - .5 cm long .3 cm + .2 cm in diam. Abies, Triangulum c. 1000 m. W. d. A.  
Flowered October 1916 + January 1918



L. *Microsternus papillosus* 1/13.

18 MONDAY [322-43] Bull. Ind. Ent. Soc. Jan. 1919. 117.  
 O Full Moon, 7.33 a.m.

Body. Head short. Antennae short, 11-segmented. Head brown, with a small white spot on the vertex. Eyes large, black. Thorax brown, with a small white spot on the scutum. Wings short, 11-segmented. Abdomen brown, with a small white spot on the 1st segment. Tarsus brown, with a small white spot on the 1st segment. Pedicel brown, with a small white spot on the 1st segment. Papillae, c. 1-1.5 mm long, pointed, with a small white spot on the 1st segment. Flap, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Spreading appendage, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Flower, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Sepals, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Petals, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Stamens, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Pistil, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Ovary, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Style, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Stigma, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Anther, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Pollen, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Sperm, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Egg, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Larva, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Pupa, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Adult, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment.

19 TUESDAY [323-42]

2 *Microsternus papillosus* 1/13. Body. Head short. Antennae short, 11-segmented. Head brown, with a small white spot on the vertex. Eyes large, black. Thorax brown, with a small white spot on the scutum. Wings short, 11-segmented. Abdomen brown, with a small white spot on the 1st segment. Tarsus brown, with a small white spot on the 1st segment. Pedicel brown, with a small white spot on the 1st segment. Papillae, c. 1-1.5 mm long, pointed, with a small white spot on the 1st segment. Flap, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Spreading appendage, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Flower, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Sepals, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Petals, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Stamens, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Pistil, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Ovary, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Style, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Stigma, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Anther, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Pollen, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Sperm, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Egg, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Larva, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Pupa, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment. Adult, c. 1.5-2 mm long, pointed, with a small white spot on the 1st segment.



30 Days.

NOVEMBER, 1918.

NOV. 18 to 21.

20 WEDNESDAY [324-41]

21 THURSDAY [325-40]



141 BILLS DUE WITH GRACE.  
30 Days—Dec. 24.  
60 Days—Jan. 24.  
90 Days—Feb. 22.

# NOVEMBER, 1918.

11th Month.

22 FRIDAY [326—39]

23 SATURDAY [327—38]  
S.R. 7.32, S.S. 4.0.

24 Sunday [328—37]  
*26th after Trinity (last).*



30 Days.

NOVEMBER, 1918.

NOV. 22 to 26.

25 MONDAY [329—36]  
( *Last Quarter, 10.25 a.m.*

26 TUESDAY [330—35]



143 BILLS DUE WITH GRACE.  
30 Days—Dec. 30.  
60 Days—Jan. 29.  
90 Days—Feb. 28.

**NOVEMBER, 1918.**

**11th & 12th Months.**

27 WEDNESDAY [331—34]

28 THURSDAY [332—33]



30 &amp; 31 Days.

NOV.—DEC., 1918.

NOV. 27 to DEC. 1.

29 FRIDAY [333—32]

30 SATURDAY [334—31]  
*S. Andrew.* S.R. 7.43, S.S. 3.54.DEC. 1 Sunday [335—30]  
*Advent Sunday. Queen Alexandra born, 1844.*



145    BILLS DUE WITH GRACE.  
30 Days—Jan. 4.  
60 Days—Feb. 3.  
90 Days—Mar. 5.

# DECEMBER, 1918.

12th Month.

2 MONDAY [336—29]  
*Interest payable on £5% War Loan 1929-1947.*

3 TUESDAY [337—28]  
● *New Moon, 3.19 p.m.*



31 Days.

DECEMBER, 1918.

DEC. 2 to 5.

4 WEDNESDAY [338—27]

5 THURSDAY [339—26]



30 Days—Jan. 8.  
60 Days—Feb. 7.  
90 Days—Mar. 8.

# DECEMBER, 1918.

12th Month.

6 FRIDAY [340—25]

T. serrata.

1 cecidophyllus

7 SATURDAY [341—24]

Found one 1/2 inch growing on a small S.R. 7.52, S.S. 3.50. moss covered tree. The top was chosen and also the leaf stalks and even the leaves themselves. One plant found at long, flat area on the trunk of a large tree in the Chinese burial ground near the gate, 1922.

Found one on a small berry tree ( ) in forest near Gomas had thrown out raceme with a total of 125 flowers without a single capsule being formed. November 1926. A large plant examined at Siliceu, Nagai Sumatran, had had no fewer than 80 flowers only 1 of which had produced a capsule. September 1914. Yet at Gomas quite a number of young plants and which would indicate that given good conditions the rate of germination is about the same. In the case of a plant of T. macrophyllum found at Siliceu at about the same time no capsule had resulted from 25 flowers.

Location of flowers. About 2 days at intervals of about 10 days between flowers.

8 Sunday [342—23]  
2nd in Advent.



31 Days.

## DECEMBER, 1918.

DEC. 11 to 15.

13 FRIDAY [347—18]

*Pat. can. thur.*  
 14 SATURDAY [348—17]  
 S.R. 8.0, S.S. 3.49.

15 Sunday [349—16]  
*3rd in Advent. Ember Week.*



151 BILLS DUE WITH GRACE.

30 Days—Jan. 18.

60 Days—Feb. 17.

90 Days—Mar. 19.

# DECEMBER, 1918.

12th Month.

16 MONDAY [350—15]

17 TUESDAY [351—14]  
○ Full Moon, 7.18 p.m.



31 Days.

DECEMBER, 1918.

DEC. 16 to 19.

18 WEDNESDAY [352—13]  
*Ember Day.*

19 THURSDAY [353—12]



I 53 BILLS DUE WITH GRACE.  
30 Days—Jan. 22.  
60 Days—Feb. 21.  
90 Days—Mar. 22.

DECEMBER, 1918.

12th Month.

20 FRIDAY [354—11]

Ember Day.

On small white by flowers and on large fruit at base, abundant, on the smallest large, with long.

3 plants examined.

| Plant | Flowers | Capsules | %      |
|-------|---------|----------|--------|
| 1     | 27      | 1        | 37.0   |
| 2     | 1       | 1        | 100.00 |
| 3     | 1       | 1        | 100.00 |
| 4     | 34      | 5        | 88.23  |
| 5     | 11      | 2        | 18.18  |

First flower fertilized, head of raceme dying brown  
Do. Do.

21 SATURDAY [355—10]

S. Thomas. Ember Day.

Michaelmas Law Sittings end. S.R. 8.5, S.S. 3.50.

22 Sunday [356—9]

4th in Advent. Shortest Day.



31 Days.

DECEMBER, 1918.

DEC. 25 to 29.

27 FRIDAY [361-4]  
S. John.

- D. an-cps*. Lip ...  
*D. serr.* Lip ...  
*D. leonis* Lip ...  
*D. tropicorum* Lip ...  
*D. culophorum* Lip ...  
*D. subulatum* Lip ...  
*D. gemellum* Lip ...  
*D. decorsum* Lip ...  
*D. planibulbe* Lip ...  
*D. truncat.* Lip ...  
*D. crumenatum* Lip ...  
*D. flexuosum* Lip ...  
*D. secundum* Lip ...  
*D. sanguinolentum* Lip ...  
*D. revolutum* Lip ...  
*D. metachilium* Lip ...

28 SATURDAY [362-3]  
Holy Innocents. S.R. 8.8, S.S. 3.55.

- B. macranthum* Rhiz. ...  
*B. pileatum* Rhiz. ...  
*B. patens* do. ...  
*B. medusae* S. ...  
*B. lasianthum* S. ...  
*B. vaginatum* S. ...  
*Eriov. floribunda* S. ...  
*E. Hanigayi* S. ...  
*E. nutans* S. ...  
*Trich. rigida* S. ...  
*E. pumila* S. ...  
*Trich. vestita* S. ...  
*Trich. velutina* S. ...  
*E. leiophylla* S. ...  
*Spath. plicata* S. ...  
*Tha. Walthamii* S. ...  
*Coel. testacea* S. ...  
*C. comata* S. ...  
*Messangeana* S. ...  
*C. pandorata* S. ...  
*C. asperata* S. ...  
*Phol. imbricata* S. ...  
*Col. veratrifolia* S. ...  
*Arenaria bambusifolia* S. ...  
*Clad. viridiflora* S. ...



12th & 1st Months.

30 MONDAY [364—1]

[illegible]



